STR-GX808ES/GX909ES

SERVICE MANUAL

US Model
Canadian Model

PHOTO : STR-GX909ES

SPECIFICATIONS

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 80 watts (STR-GX909ES) or 70 watts (STR-GX808ES) per channel minimum RMS power, with no more than 0.04 % total harmonic distortion from 250 milliwatts to rated output. (U.S.A. model only)

	STR-GX909ES Surround mode (8 ohms)	STR-GX808ES Surround mode (8 ohms)
FRONT (at 20 Hz-20 kHz)	85 W + 85 W	75 W + 75 W
CENTER* (at 20 Hz-20 kHz)	85 W	75 W
REAR (at 1 kHz)	20 W + 20 W	20 W + 20 W

* (only in the DOLBY SUR, THEATER and LIVE modes)

Other Specifications

Amplifier section (Front)

Continuous RMS power (at 20 Hz-20 kHz)

	STR-GX909ES	STR-GX808ES
8 ohms	85 W + 85 W	75 W + 75 W
4 ohms	80 W + 80 W	70 W + 70 W

		STR-GX909ES	STR-GX808ES
Dynamic power output (in the stereo mode)	8 ohms, at 1 kHz IHF	120 W + 120 W	110 W + 110 W
	4 ohms, at 1 kHz IHF	175 W + 175 W	165 W + 165 W
	2 ohms, at 1 kHz IHF	205 W + 205 W	185 W + 185 W

Frequency response	PHONO	RIAA equalization curve ±0.5 dB
	CD, DAT, TAPE 1,2 VIDEO 1,2,3	10 Hz – 20 kHz $^{+0}_{-1}$ dB
Damping factor (8 ohms, at 1kHz)		50
Input sensitivity/ impedance	PHONO MM	2.5 mV, 50 kilohms
	CD,DAT, TAPE 1,2, VIDEO 1,2,3	250 mV 50 kilohms
	POWER IN	1 V, 50 kilohms
S/N	PHONO MM	87 dB 79 dB** (A,2.5mV)
	CD, DAT TAPE 1,2 VIDEO 1,2,3	105 dB 85 dB** (A,150mV)
Output sensitivity/ impedance	DAT OUT, TAPE OUT 1,2 VIDEO 1	250 mV 10 kilohms
	HEADPHONES	Accepts headphones of high and low impedance
	SURROUND OUT REAR	1 V, 1 kilohm
	SURROUND OUT CENTER	1 V, 1 kilohm
	SURROUND OUT MONO	1 V, 1 kilohm
	PRE OUT	1 V, 1 kilohm
MUTING		-20dB
DBFB		+10 dB at 70Hz
LOW FILTER		90 Hz, 12 dB/oct

** '78IHF

— Continued on page 2 —

FM STEREO/FM-AM RECEIVER

SONY®

Digital signal processor section

Modulation (A/D conversion)		High Density Linear Converter
Demonstration (D/A conversion)		High Density Linear Converter (Pulse D/A Converter)
Sampling frequency		48 kHz
Equalizer	Band	3-band, Bass/Treble/Mid
	Turnover frequency	Bass: 125 Hz – 1 kHz Treble: 1 kHz – 8 kHz
	Center frequency	Mid: 54 Hz – 8 kHz
	Level	±10 dB, 1 dB step
	Slope (Q)	3-step selectable, Wide, Mid, Narrow
Surround	ROOM SIZE	16-step adjustable
	WALL	16-step adjustable
	SEAT POSITION F/R	16-step adjustable
	SEAT POSITION L/R	16-step adjustable
	EFFECT LEVEL	20-step adjustable
	REVERB TIME	16-step adjustable
	DELAY TIME***	15.0 ms-30.0 ms, 0.1 ms step
	REAR LEVEL	+10 — –50 dB, 1 dB step
	CENTER LEVEL****	+10 — –50 dB, 1 dB step
	INPUT BALANCE	Automatic

*** (only in the DOLBY SUR mode)
**** (only in the DOLBY SUR, THEATER and LIVE modes)

FM tuner section

Frequency range		87.5 – 108.0 MHz
Antenna terminals		75 ohms, unbalanced
Sensitivity at 50 dB		18.3 dBf, 4.5 µV (mono) 38.3 dBf, 45 µV (stereo)
Usable sensitivity		11.2 dBf, 2 µV (IHF)
S/N	Mono	80 dB
	Stereo	74 dB
Harmonic distortion at 1 kHz	Mono	0.3 %
	Stereo	0.5 %
IM distortion	Mono	0.3 %
	Stereo	0.5 %
Separation		45 dB at 1 kHz
Frequency response		30 Hz – 15 kHz $^{+0}_{-2}$ dB
Selectivity		60 dB at 400 kHz
Capture ratio		1.2 dB
AM suppression ratio		54 dB
Image response ratio		70 dB
IF response ratio		70 dB
Spurious response ratio		80 dB
RF intermodulation at 800 kHz		60 dB
Auto tuning threshold	Low	30 dBf
	High	50 dBf

AM tuner section

Frequency range	530 – 1,710 kHz (with 10 kHz interval) 531 – 1,710 kHz (with 9 kHz interval)
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5% (50 mV/m, 400 Hz)
Selectivity	35 dB (9 kHz), 40 dB (10 kHz)
Auto tuning threshold	55 dB/m

Video section

Inputs	VIDEO 1,2,3: 1 Vp-p 75 ohms
Outputs	VIDEO 1, MONITOR: 1 Vp-p 75 ohms

General

System	Tuner section	PLL quartz-locked digital synthesizer system
	Preamplifier section	Low-noise NF type equalizer
	Power amplifier section	Pure-complimentary SEPP
Power requirements		120 V AC,60 Hz
Power consumption		USA model: STR-GX909ES: 300 W STR-GX808ES: 280 W Canada model: STR-GX909ES: 430 VA STR-GX808ES: 400 VA
AC outlets		Two switched, total 120 W/1A max.
Dimensions (including projecting parts and controls)		STR-GX909ES: Approx. 470 x 148 x 385 mm (w/h/d) (18 $^{5}/_{8}$ x 5 $^{13}/_{16}$ x 15 $^{3}/_{16}$ inches) STR-GX808ES: Approx. 430 x 148 x 385 mm (w/h/d) (17 x 5 $^{13}/_{16}$ x 15 $^{3}/_{16}$ inches)
Mass		STR-GX909ES: Approx. 14.7 kg (32 lb 7 oz) STR-GX808ES: Approx. 12.5 kg (27 lb 9 oz)

Supplied accessories
FM wire antenna (1)
AM loop antenna (1)
Remote commander RM-P331 (1)
Sony Batteries SUM-3(NS) (2)
Screws (STR-GX909ES only)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

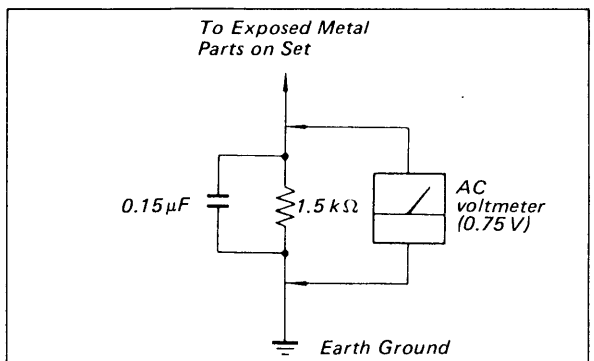

Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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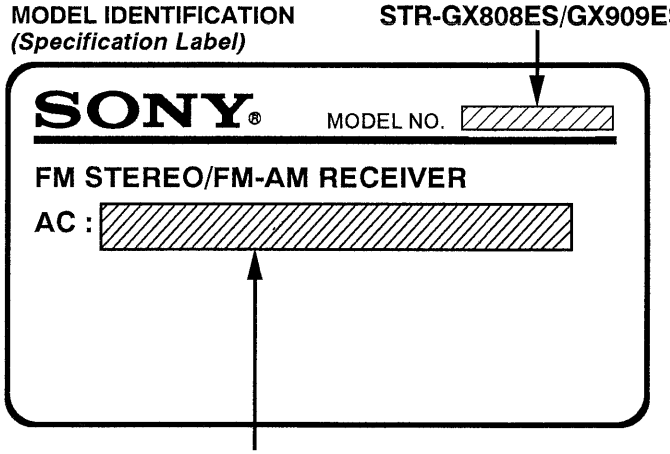
MODEL IDENTIFICATION **STR-GX808ES/GX909ES**
(Specification Label)



GX808ES { US model : 120V~60Hz 280W
Canadian model : 120V~60Hz 400VA

GX909ES { US model : 120V~60Hz 300W
Canadian model : 120V~60Hz 430VA

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Overview

The STR-GX909ES/STR-GX808ES is an FM Stereo/FM-AM receiver and audio/video control center.
You can enjoy various audio/video program sources with this unit.

Amplifier
- Optical Legato Linear A System allows the receiver to operate automatically as a class A amplifier when the level is low and as a class B amplifier when the level is high without disturbing the sound signal. This minimizes total harmonic distortion at every sound stage.
- This receiver has a spontaneous twin drive power circuit. Condensers having large capacity are used independently for the voltage amplification drive stage of class A and power output stage of class B. Thus, a stable output and high quality sound are obtained, resulting in exclusion of power interferences.
  The class A stage realizes a stable operation free from interference of the power stage even when an instantaneous or strong output is received.

TV/video programs
- You can enjoy TV or CATV programs with FM simulcast.
- Sounds from various audio program sources can be added on video tapes during editing.

Tuner
- Precise tuning is ensured by a quartz locked digital synthesizer.
- Station Index system allows you to tune into a station quickly.

Powerful surround sound
By connecting the power amplifier to the SURROUND OUT jacks of this unit, you can obtain powerful surround sound.

Dynamic sound from the front speakers
By connecting the power amplifier and the pre-amplifier to the PRE OUT and MAIN IN jacks of this unit respectively, you can obtain a dynamic sound from the front speaker. (See page 10)

LOW FILTER switch
This unit has the LOW FILTER switch which cut the low frequency signal from the front speakers. (See page 10)

Digital surround processor
- The STR-GX909ES/STR-GX808ES electronically reproduces the reflected sound (early reflection) and reverberation sound (reverberation) by using its digital signal processor, and allows you to obtain the acoustics of various situations.
- **DOLBY* PRO LOGIC**: The STR-GX909ES/STR-GX808ES incorporates the Dolby Pro Logic Surround Decoder which has the same functions for playback as movie theaters and gives a theater-like experience in your listening room, naturally reproducing the audio sound field.

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S number 3,959,590: Canadian numbers 1,004,603 and 1,037,877. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Digital parametric equalizer
You can enjoy audio program sources with appropriate equalization curve by controlling the level of the desired 3 frequency bands.

Sound field
- 10 recommended sound field programs (combination of surround and parametric equalizer settings) are preset in the factory for easy use. You can also store up to 10 settings you created in the memory.
- Combined use of the sound field programs and the preset stations allow you to enjoy broadcast listening immediately with the memorized sound field settings.

ON SCREEN function (STR-GX909ES only)
This function allows you to monitor the operation being performed on the monitor TV.

TITLE function (STR-GX909ES only)
With this function, you can edit a title and superimpose on your picture.

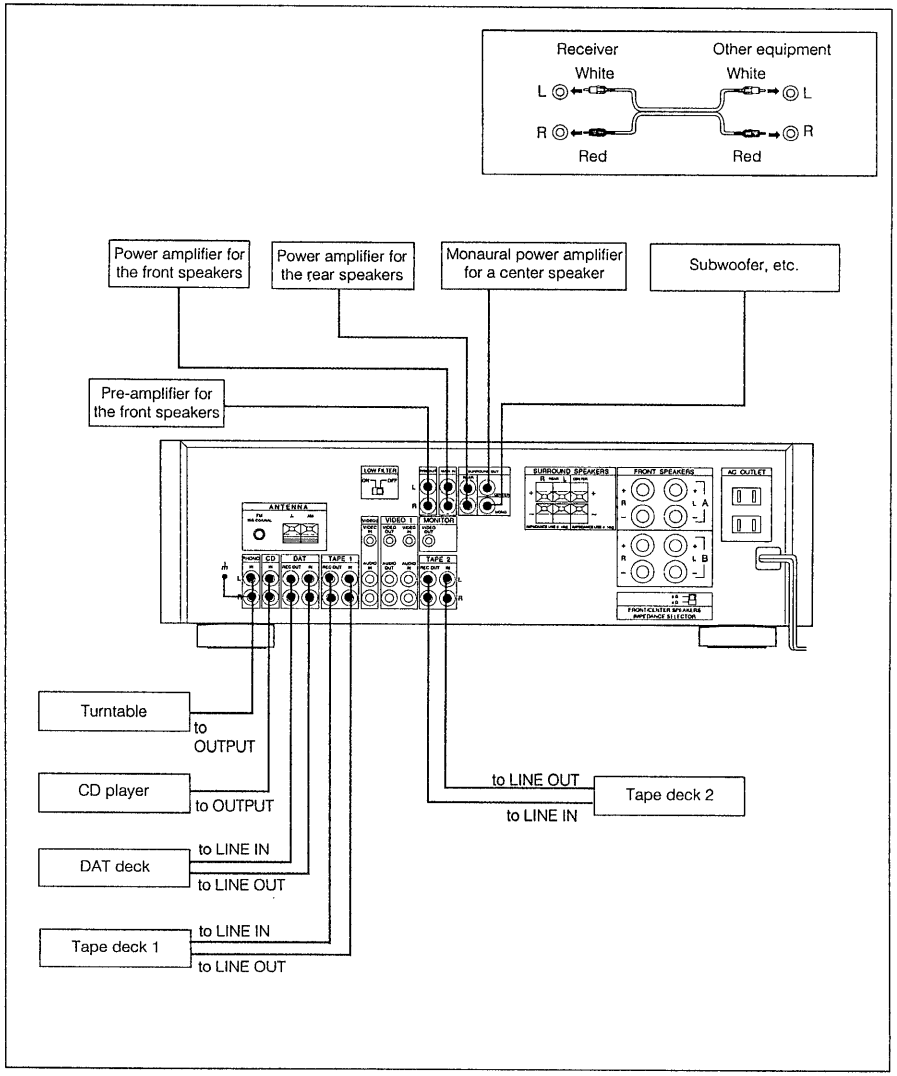
Remote commander supplied
The STR-GX909ES/STR-GX808ES is supplied with the RM-P331 which can "learn" the various functions of other remote commanders of the infrared type.

The FUNCTION/SOUND FIELD/PRESET TUNING buttons
There are two kinds of modes for the FUNCTION/SOUND FIELD/PRESET TUNING buttons. One is the "Auto mode" and the other is the "Manual mode". With these modes, you can conveniently operate this receiver.
This manual describes the operations in the auto mode.

This instruction manual covers the STR-GX909ES and STR-GX808ES.
The followings are only for the STR-GX909ES.
- ON SCREEN function
- TITLE function
- Side panels

The illustration used in the manual are mainly the STR-GX909ES.

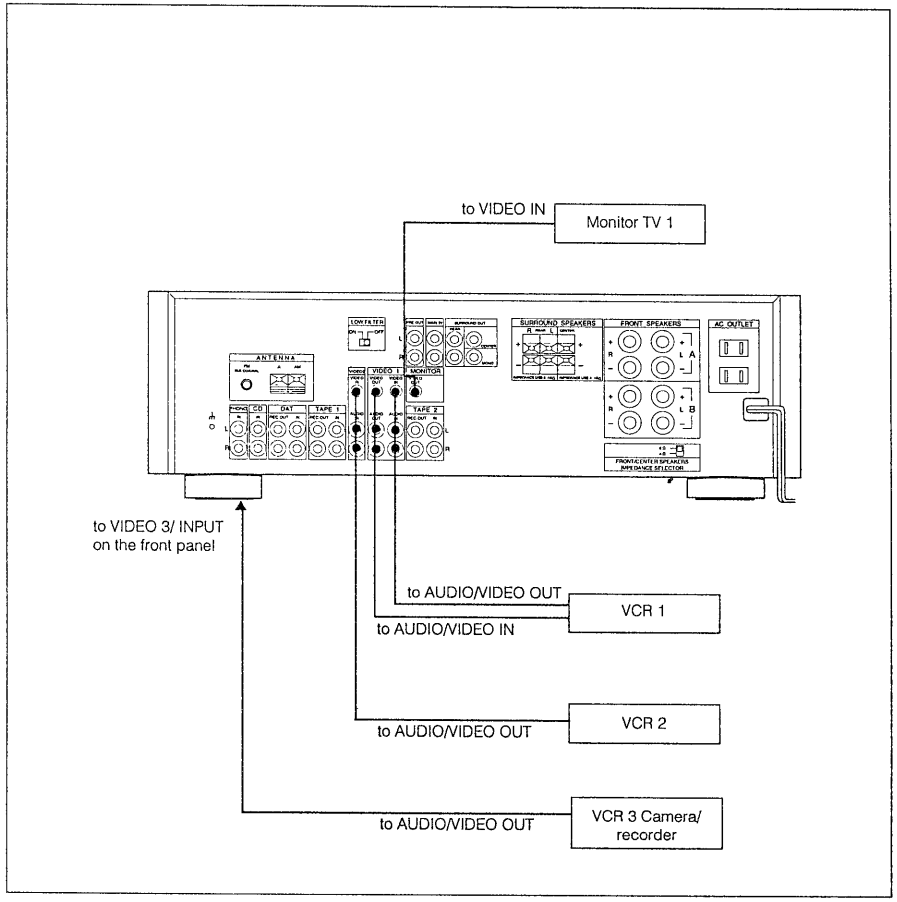
Connecting Audio Equipment



This section is extracted from instruction manual.

Hooking Up the System

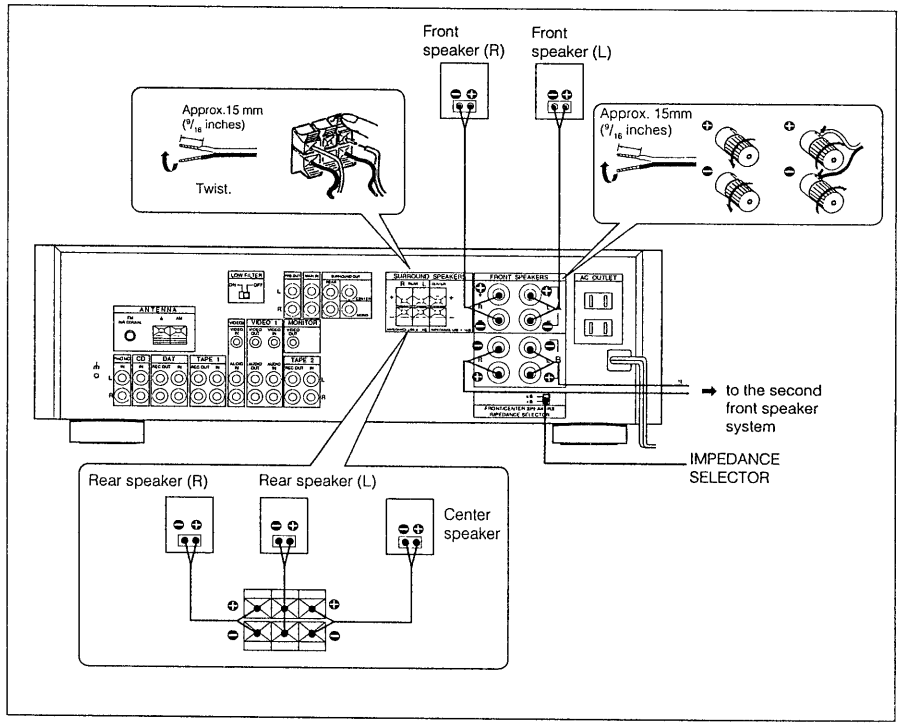
Connecting Video Equipment



Caution (STR-GX909ES only)
When the MONITOR VIDEO OUT jack is connected and ON SCREEN ON/OFF is set to ON, the cursor mode operation buttons cannot be used for the other functions than the ON SCREEN function.

Connecting Speaker Systems

Front, center and rear speakers can be connected to this unit.



On the IMPEDANCE SELECTOR
The STR-GX909ES/STR-GX808ES have the IMPEDANCE SELECTOR for front or center speaker(s).

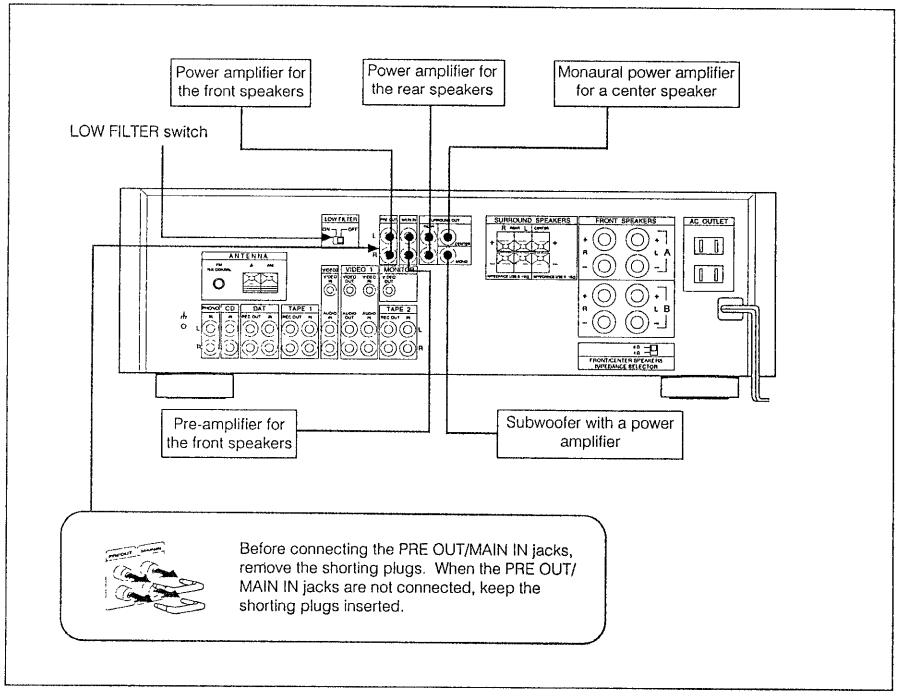
- When using the front or center speaker(s) having nominal impedance from 4 ohms or higher, set to the 4 Ω position.
- When using the front or center speaker(s) having nominal impedance from 8 ohms or higher, set to the 8 Ω position.
- When using both FRONT SPEAKERS A and B systems, use the speakers having the nominal impedance of more than 8 ohms and set the IMPEDANCE SELECTOR to the 4 Ω position.

Note
When connecting the speaker cord to the speaker terminal, make sure that the polarity (+ and –) of the speaker cord is correct. If the polarity is reversed at either speaker, the sound will be distorted and will lack bass.

Hooking Up the System

Connecting the External Power Amplifiers and a Pre-amplifier

By connecting the external power amplifiers and a pre-amplifier to this receiver, you can obtain a powerful sound.


Power amplifier for the front speakers
Power amplifier for the rear speakers
Monaural power amplifier for a center speaker
LOW FILTER switch
Pre-amplifier for the front speakers
Subwoofer with a power amplifier
Before connecting the PRE OUT/MAIN IN jacks, remove the shorting plugs. When the PRE OUT/ MAIN IN jacks are not connected, keep the shorting plugs inserted.

When connecting a monaural power amplifier for a center speaker
Connect the input jack of the power amplifier to the SURROUND CENTER jack of this receiver.

When connecting a subwoofer with a power amplifier
Connect the line input jack of the subwoofer to the SURROUND MONO jack of this receiver.
When using subwoofer not having a power amplifier, connect through a monaural power amplifier.

When connecting a power amplifier for the rear speakers
Connect the input jacks of the power amplifier to the SURROUND OUT REAR jacks of this receiver.

When connecting a pre-amplifier for the front speakers
Connect the input jacks of the pre-amplifier to the MAIN IN jacks of this receiver.

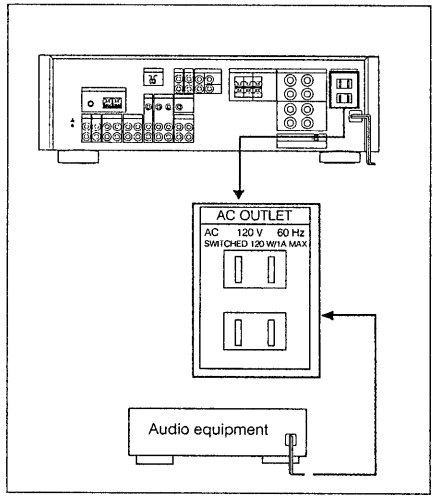
When connecting a power amplifier for the front speakers
Connect the input jacks of the power amplifier to the PRE OUT jacks of this receiver.

To obtain a powerful sound from the rear speakers
Insert the shorting plugs to the MAIN IN and SURROUND OUT REAR jacks and then connect the power amplifier to the PRE OUT jacks.

On the LOW FILTER ON/OFF switch
With setting the LOW FILTER to ON, the low frequency signal from the front speakers will be cut, and better sound effect may be obtained when using a subwoofer.

Connecting to the Power Outlet

By connecting the power cord of the other audio equipment to SWITCHED AC OUTLET, this unit can supply the power source to the other audio equipment.



Caution
Be careful that the total power consumption of each equipment connected to the outlets on the receiver does not exceed 120 watts.
Do not connect electrical home appliances such as an electric iron, fan, TV, or other high-wattage equipment to these outlets.

Selecting the Mode of the FUNCTION/SOUND FIELD/PRESET TUNING Buttons

There are two kinds of modes for the FUNCTION/SOUND FIELD/PRESET TUNING buttons. One is the "Auto mode" and the other is the "Manual mode".

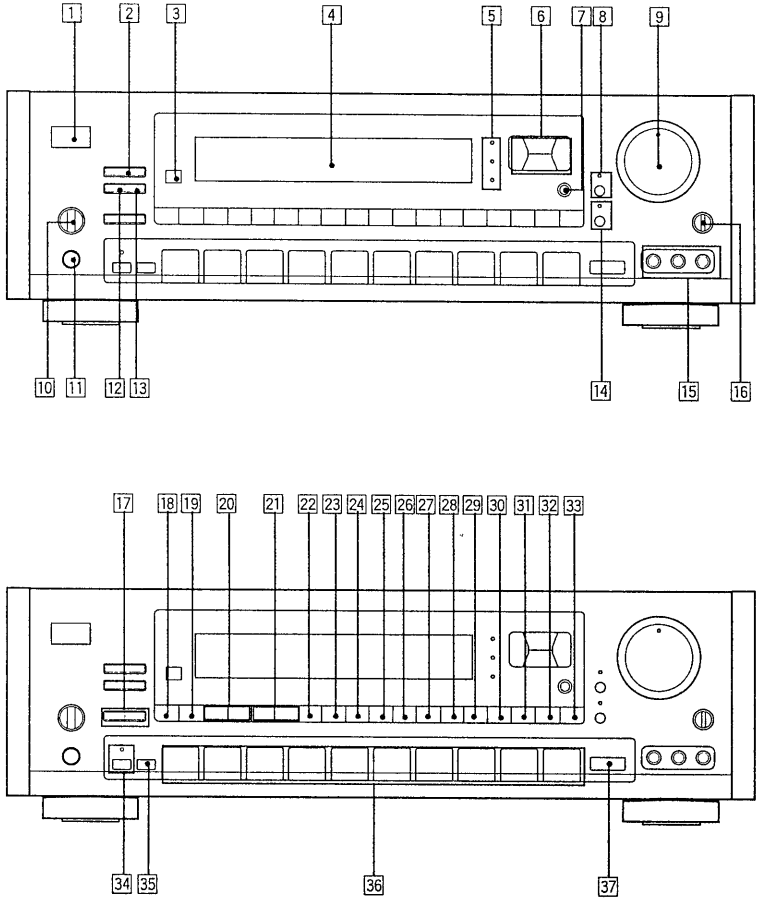
- **Auto mode**
  The FUNCTION/SOUND FIELD/PRESET TUNING buttons are factory preset to the auto mode:
  After one of the FUNCTION buttons, SOUND FIELD LINK, SOUND FIELD ON/OFF or SOUND FIELD USER/PRESET is pressed, the FUNCTION/SOUND FIELD/PRESET TUNING buttons change to the SOUND FIELD mode automatically.
  When TUNER is pressed, these buttons function as numeric buttons.

- **Manual mode**
  When you press the POWER switch while pressing MODE SELECT, the FUNCTION/SOUND FIELD/PRESET TUNING buttons are set to the manual mode.
  With MODE SELECT, you can select the desired mode.
  To return to the auto mode, perform the same procedure again.

Identifying the Parts and Controls

Front Panel

These illustrations are STR-GX909ES.
The STR-GX808ES is not equipped with the ON SCREEN ON/OFF, TITLE ON/OFF and TITLE IN/OUT buttons.



1 **POWER switch**

2 **ON SCREEN ON/OFF button** (STR-GX909ES only)

3 **Remote sensor**

4 **Display**

5 **Cursor mode indicators**
(See pages 18, 23, 32, 33, 35, 38.)

6 **Cursor mode operation buttons**
(See pages 18, 23, 32, 33, 35, 38, 40)

7 **CURSOR MODE/TITLE MENU button**
(See pages 18, 23, 32, 33, 35, 38, 40.)

8 **DBFB button and indicator** (See page 16.)

9 **MASTER VOLUME control** (See page 16.)

10 **SPEAKERS selector** (See page 16.)

11 **HEADPHONES jack**

12 **TITLE ON/OFF button** (See pages 40, 41.)
(STR-GX909ES only)

13 **TITLE IN/OUT button** (See page 41.)
(STR-GX909ES only)

14 **MUTING button and indicator** (See page 16.)

15 **VIDEO 3/INPUT jacks**

16 **BALANCE control** (See page 16.)

17 **EDIT VIDEO/AUDIO buttons** (See pages 27, 28.)

18 **DISPLAY GRAPHIC button** (See page 38.)

19 **DISPLAY INDEX button** (See pages 20, 24.)

20 **INDEX SELECT/TUNING –/+ buttons**
(See pages 20, 24.)

21 **PRESET TUNING –/+ buttons** (See pages 22, 24.)

22 **TUNING LEVEL button** (See page 20.)

23 **MEMORY button** (See pages 18, 21, 23.)

24 **DIRECT TUNING button** (See page 19.)

25 **FM MODE button** (See page 19.)

26 **FM/AM button** (See pages 19, 20.)

27 **SOUND FIELD LINK button** (See page 39.)

28 **SOUND FIELD ON/OFF button** (See pages 32, 33.)

29 **SOUND FIELD USER/PRESET button**
(See pages 35, 38, 39.)

30 **DOLBY PRO LOGIC MODE button**
(See pages 31, 32.)

31 **EQUALIZER FLAT button** (See page 38.)

32 **EQUALIZER SLOPE button** (See page 38.)

33 **EQUALIZER BAND button** (See page 38.)

34 **TAPE 2 MONITOR button and indicator**
(See page 26.)

35 **SHIFT button** (See pages 21, 22, 23.)

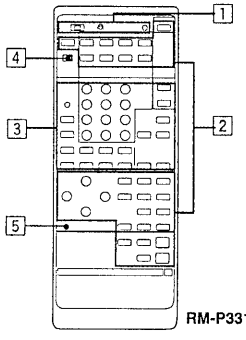
36 **FUNCTION/SOUND FIELD/PRESET TUNING buttons**
(See page 11.)

37 **MODE SELECT button** (See page 11.)

Identifying the Parts and Controls

Remote Commander

When you manipulate a switch or button on the commander, be sure to point the head of the commander toward the remote control sensor on the front of the receiver. If there is an obstacle between the receiver and the head of the commander, the receiver may not be controlled remotely.



RM-P331

1 Program control section

Mode selector and indicator
SONY STD: To control Sony equipment.
USER STD: To control equipment whose remote control functions are stored.
LEARN: To store functions of other remote commanders emitting infrared rays.
PROGRAM CLEAR: Clears the stored functions.

2 Receiver control section

FUNCTION (DAT, CD, TUNER, PHONO, VIDEO 1, VIDEO 2, VIDEO 3, TAPE) buttons: The each function is selected and the each unit enters its operating mode automatically.
SYSTEM OFF: Turns off the power of the whole system.

SOUND FIELD buttons
USER/PRE (user/preset): Selects the USER or PRESET mode.
MODE: Selects the sound field mode.
ON/OFF: Turns on/off the sound field system.
BAND: Selects the frequency band of the equalizer.
EQ: Turns on/off the setting of the equalizer and TONE controls.
T. (test) TONE: Generates a pink noise signal that is sent in succession to each speaker.
CURSOR MODE: Select CURSOR MODE.
CURSOR operating buttons
REAR LEVEL +/– buttons: Control the volume of rear speakers (surround level).
CENTER LEVEL +/– buttons : Control the volume of center speaker (surround level).
DBFB button: Turns on/off the DBFB (Dynamic Bass Feedback).
MUTING button: Mutes the sound.
MASTER VOL +/– buttons: Control the receiver volume.
SLEEP: Set to the SLEEP timer mode. In this mode, the unit is automatically turned off after the designated time. (This button functions only for STR-GX909ES)
ON SCREEN ON/OFF button: Turn on/off the ON SCREEN mode. (This button functions only for STR-GX909ES)

3 Other equipment control section

The operative buttons are changed according to the function mode and the setting of the SYSTEM/TV selector.
Numeric buttons (1 to 0): Designate the number.
>10: Designates the number more than 10.
ENTER: Press after designating the TV/VCR channel.
SHIFT: Select the memory page (A, B or C) only in the TUNER mode.
TV/VIDEO selector: Selects the TV program to see TV or VIDEO.
ANT TV/VTR button: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs.
CH/PRESET +/– buttons: Select a preset station of tuner or a preset channel of TV/VCR.
INDEX: Select another index station.
◄◄/►►: Fast winding/manual search
●REC: Recording
◄/►: Play
■: Stop
II: Pause
I◄◄/►►I: Locates a desired selection.
D (disc) SKIP: Disc skip (for a CD player equipped with a multi-disc changer)
SELECT: Changes the settings of the FUNCTION buttons.
VISUAL POWER: Turns on the power of TV, VCR or LD player.

4 SYSTEM/TV mode switch

In TV mode (When setting the SYSTEM/TV selector to TV)

Only MUTING, MASTER VOL +/– and the operative buttons in TV section on the list described on the next page can be used.

5 RESET button

Resets the remote commander to the initial state.

Precautions

On safety

- Operate the unit only on 120 V AC, 60 Hz.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- To detach the side panel, first disconnect the power cord from the wall outlet. Remove the screws on both sides to detach the panels and fasten the supplied screws into the holes on the unit. (STR-GX909ES only)

To prevent internal heat buildup in the unit,
place the unit in a location with adequate air circulation.

Do not install the unit:

- near heat sources such as radiators or air ducts.
- in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Do not place anything on top of the cabinet.
The top ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.

Do not throw away the carton and packing material!
It will be an ideal container when transporting the system for repair work, etc.

On operation
Before making program source connections, be sure to turn the power switch off and unplug the unit.

On cleaning the cabinet
Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.

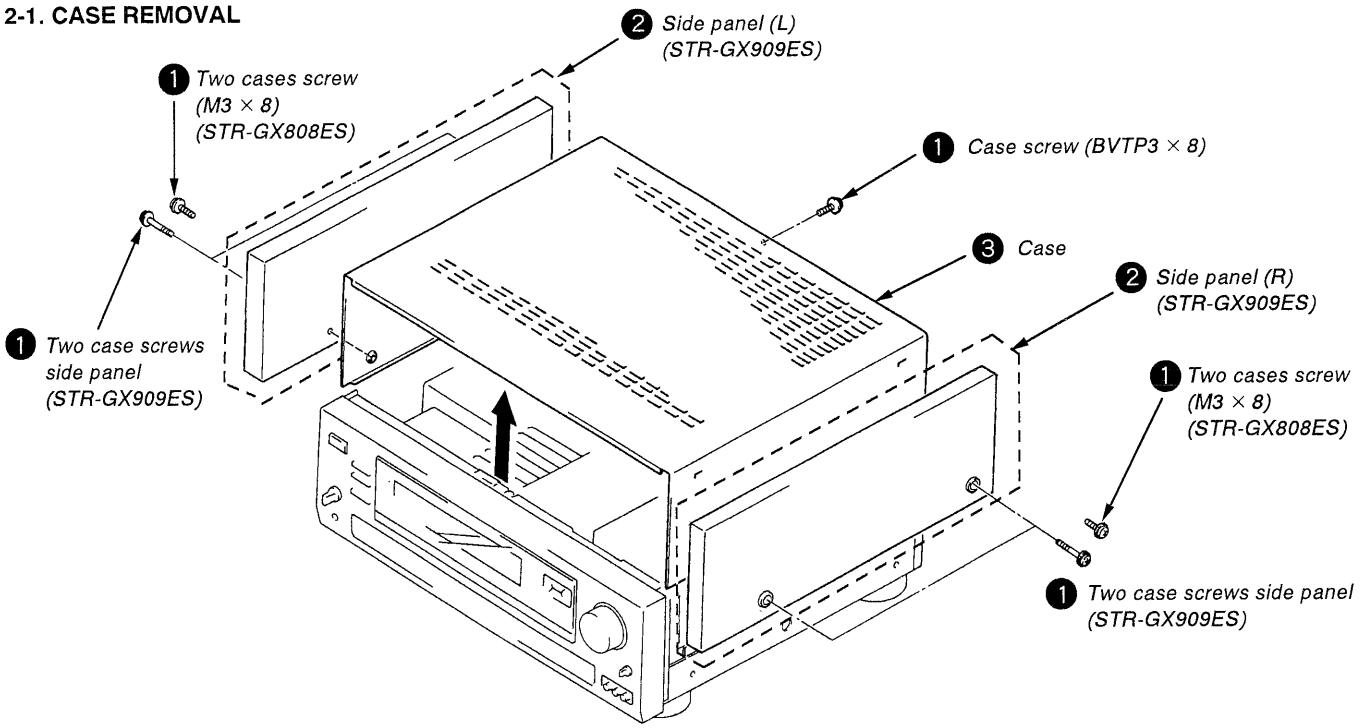
For the customers in the U.S.A.
For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.

If you have any question or problem concerning your unit, please consult your nearest Sony dealer.

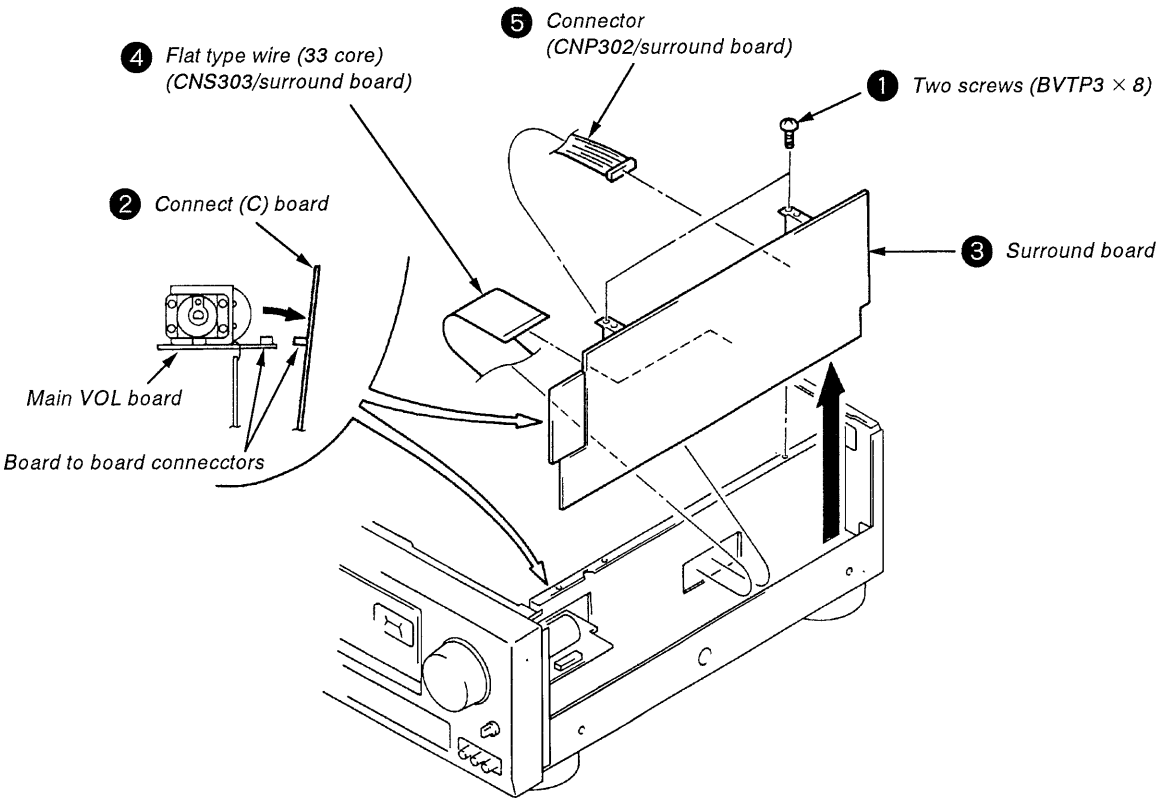
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

2-1. CASE REMOVAL



2-2. SURROUND BOARD REMOVAL

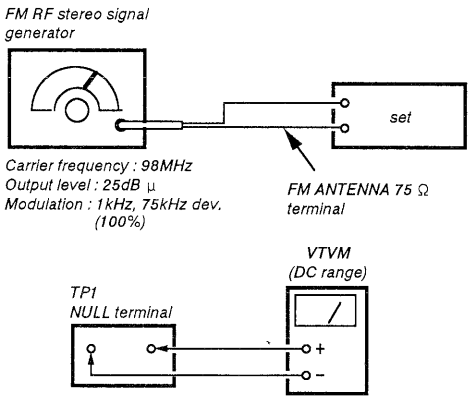


SECTION 3
ELECTRICAL ADJUSTMENTS

FM SECTION

• FM Discriminator (NULL) Adjustment

Setting :



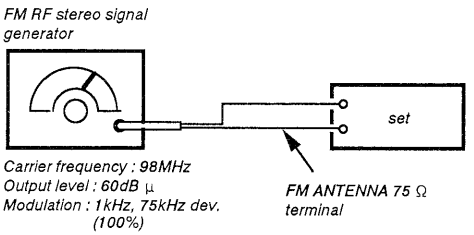
Procedure :

1. Tune the set to 98MHz.
2. Adjust T21 for 0V reading on the VOM.

Note : FM Tuning level adjustment should be made after FM discriminator adjustment.

• FM Tuning Level Adjustment

Setting :

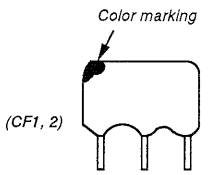

FM RF stereo signal generator
set
Carrier frequency : 98MHz
Output level : 60dB μ
Modulation : 1kHz, 75kHz dev. (100%)
FM ANTENNA 75 Ω terminal

Procedure :

1. Tune the set to 98MHz.
2. Adjust RV24 so that the Voltage of IC10 ㉒ Pin is set to low.

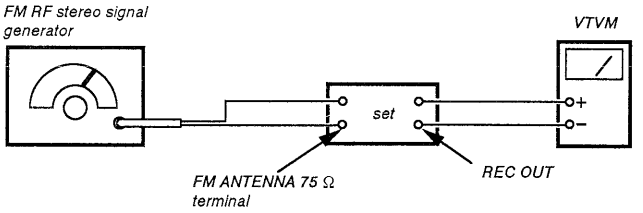
Note on Ceramic Filter (CF1, 2) Replacement. (DISPLAY BOARD)

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by (* A, * B) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



• FM Stereo Separation Adjustment

Setting :



Carrier frequency : 98MHz
Output level : 60dB μ
Modulation :
Audio (1kHz) : 33.75kHz dev. (45%)
Pilot (19kHz) : 7.5kHz dev. (10%)
Sub-channel (38kHz) : 33.75kHz dev. (45%)

Procedure :

Tune the set to 98MHz

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV21 for minimum reading
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV21 for minimum reading

L-CH Stereo separation : Ⓐ−Ⓑ
R-CH Stereo separation : Ⓒ−Ⓓ
> 40dB

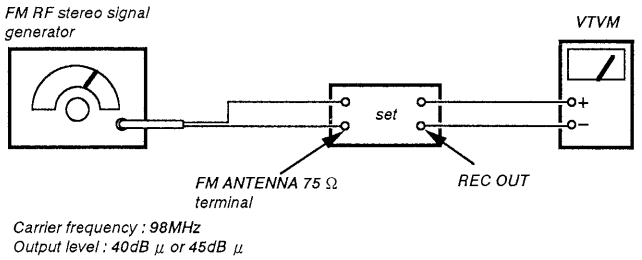
The separations of both channels should be equal

○ : shout
× : open

Ceramic filter		Mount		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	* A (D217)	* B (D218)	
White	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	×	10.650

• Auto Stop Level Adjustment

Setting :



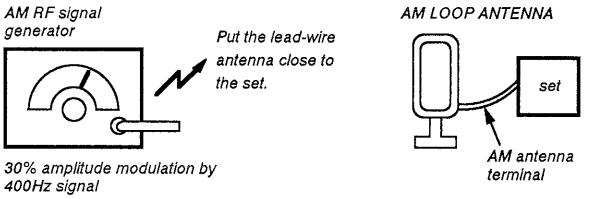
Procedure :

1. Push the TUNING LEVEL switch to High.
2. Adjust RV25 so that the voltage of IC10 ㉑ pin set to low.

AM SECTION

• AM Tuning Level

Setting :

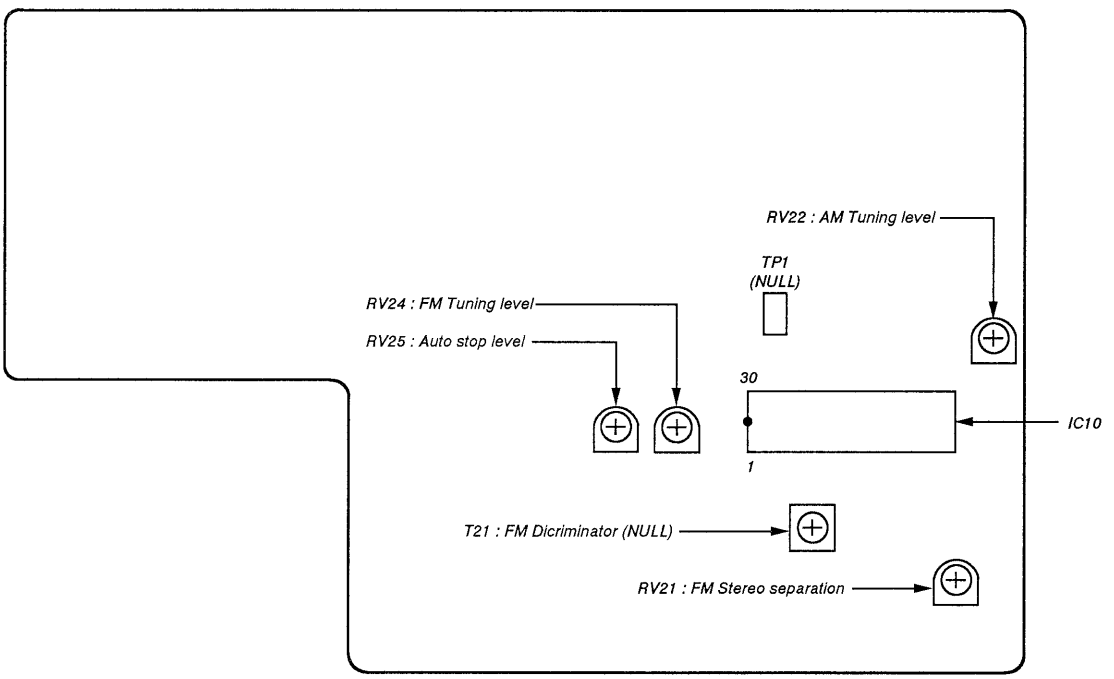

AM RF signal generator
Put the lead-wire antenna close to the set.
30% amplitude modulation by 400Hz signal
AM LOOP ANTENNA
set
AM antenna terminal

Procedure :

1. Tune the set to 1,050kHz.
2. Adjust RV22 so that the voltage of IC10 ㉑ pin set to low.

Adjustment Location :

【TUNER VIDEO BOARD】 – Component side –



ONSCREEN SECTION

Color Burst Signal Adjustment

Setting :

Signal :	None
Frequency counter :	TP101

Procedure :

Adjust to 3.579600 ± 10Hz with CT101

H.sync Signal Adjustment

Setting :

Signal :	None
Frequency counter :	TP102

Procedure :

Adjust to 15.734kHz with RV103.

Color Reproducibility Adjustment

Procedure :

1. Push [▼] and [▲] buttons at once while pushing [TAPE 2] button.
2. Adjust the picture frame as shown in Fig. A when using a color bar chart for adjustment with RV104.

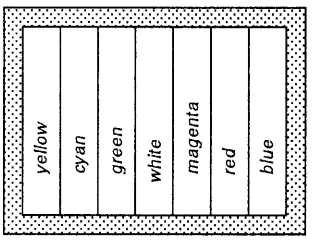
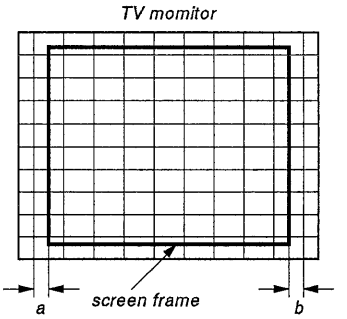


Fig. A. (picture of monitor screen)

H. POSITION Adjustment

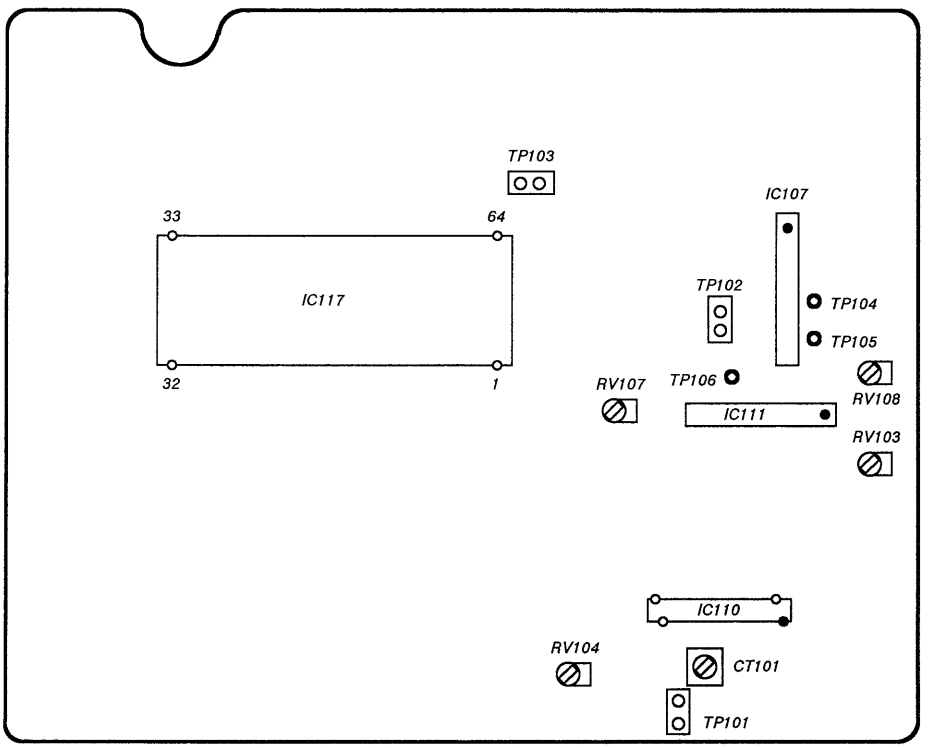
Procedure :

1. Set the pattern generator to the [▦] mode.
2. Turn the [TITLE] ON.
3. Confirm the position of the titler screen frame on the TV monitor.
4. If it is not satisfied the standard, readjust RV107.



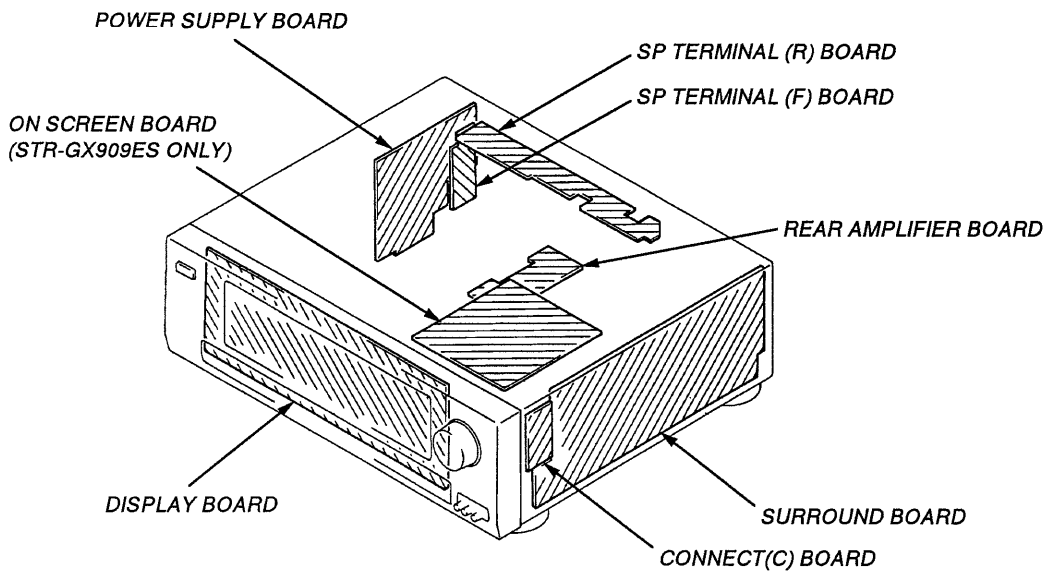
Adjustment Location :

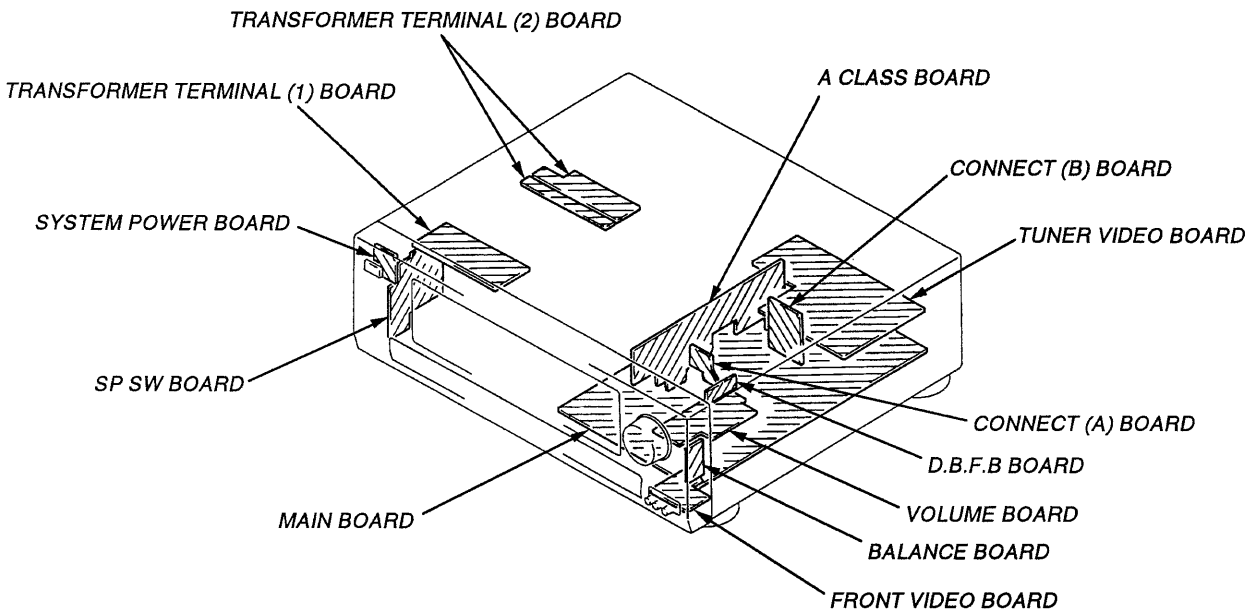
[ONSCREEN BOARD] – Component side –



SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARD LOCATION

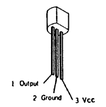




4-2. SEMICONDUCTOR LEAD LAYOUTS

BA7611AN

NJM78L05A



2SA1175-HFE
2SC2785-HFE
2SC3623A-LK
DTA124ES
DTC144ES

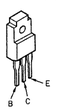
2SC2012

RBV-602-01

GP1U52XB

RBA-402

2SA1684-LK

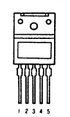


2SK246-GR2
2SK246-GR2

SEL2810A

2SA979-FG

LM3875-S



10E2
1N4148M
1S1585
HZS4ALL
UZL-36H
UZP-6.8B

SEL3810A-CD

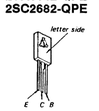
2SA988-PAFAEA

2SC1841-PAFAEA

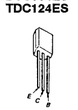
SEL6914W-TP6S

LVA519S
TC5081AP

2SA1142-QPE
2SC2682-QPE



2SC2603-EF
DTA114ES
DTC114ES
TDC124ES



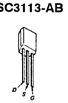
1SS352

M5F7805
M5F78M15

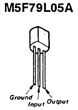
HZS6A3L
HZ6C3L

2SA1162
2SC1623-L5L6
2SC3395
2SC3396
2SC3398
2SC3624A-L15
2SC3661
DTA144EK
FN1A4M-M33
RN1402
RN2402

2SC2669-OY
2SC3113-AB

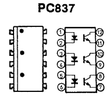


M5F79L05A



2SC4431-LK

PC837



M5F79M15

● SEMICONDUCTOR LOCATION

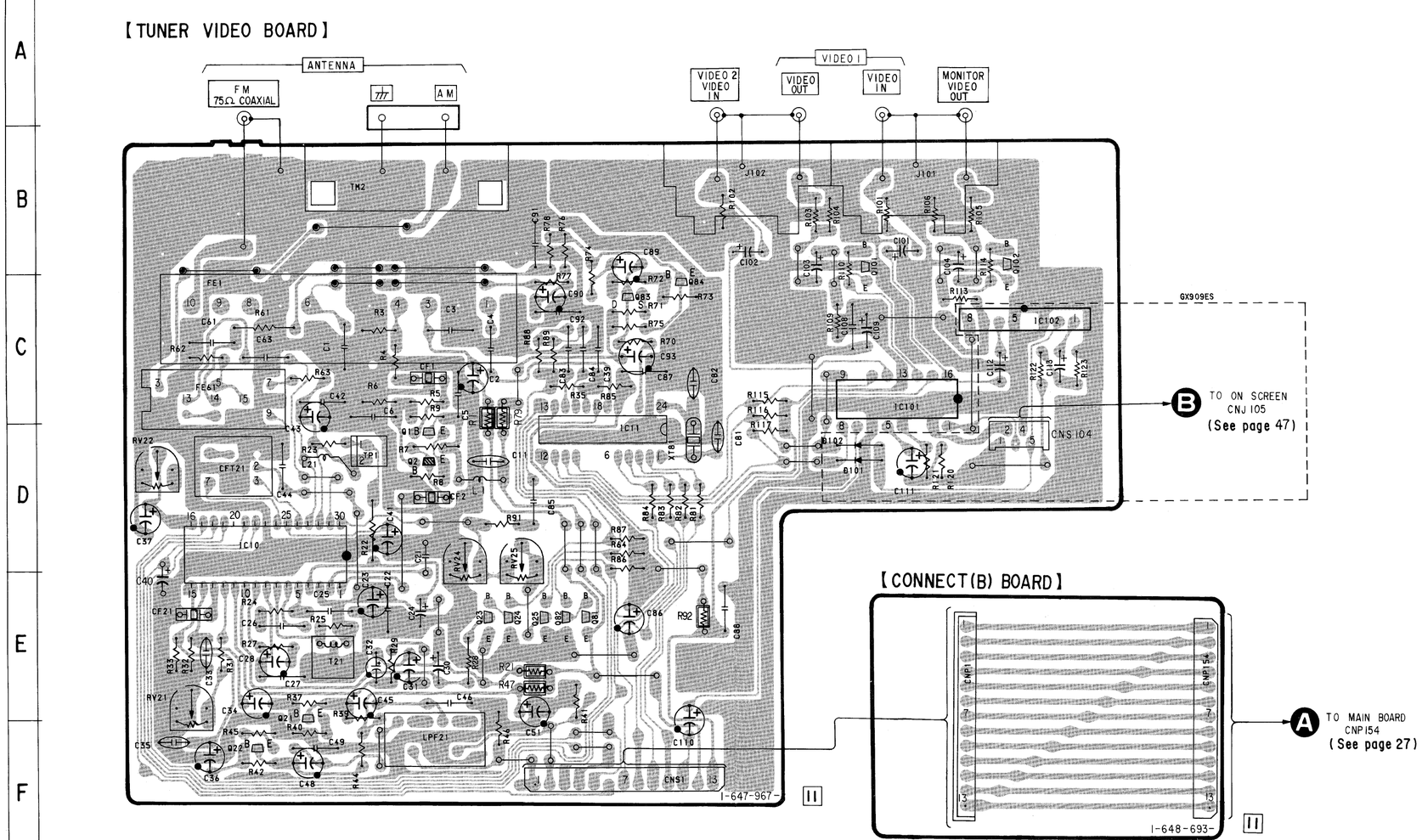
Ref. No.	Location
D101	D-6
D102	D-6
IC10	D-2
IC11	D-4
IC101	C-6
IC102	C-7
Q1	D-3
Q2	D-3
Q21	E-2
Q22	F-2
Q23	E-4
Q24	E-4
Q25	E-4
Q81	E-4
Q82	E-4
Q83	C-4
Q84	C-5
Q101	B-6
Q102	B-7

Note:

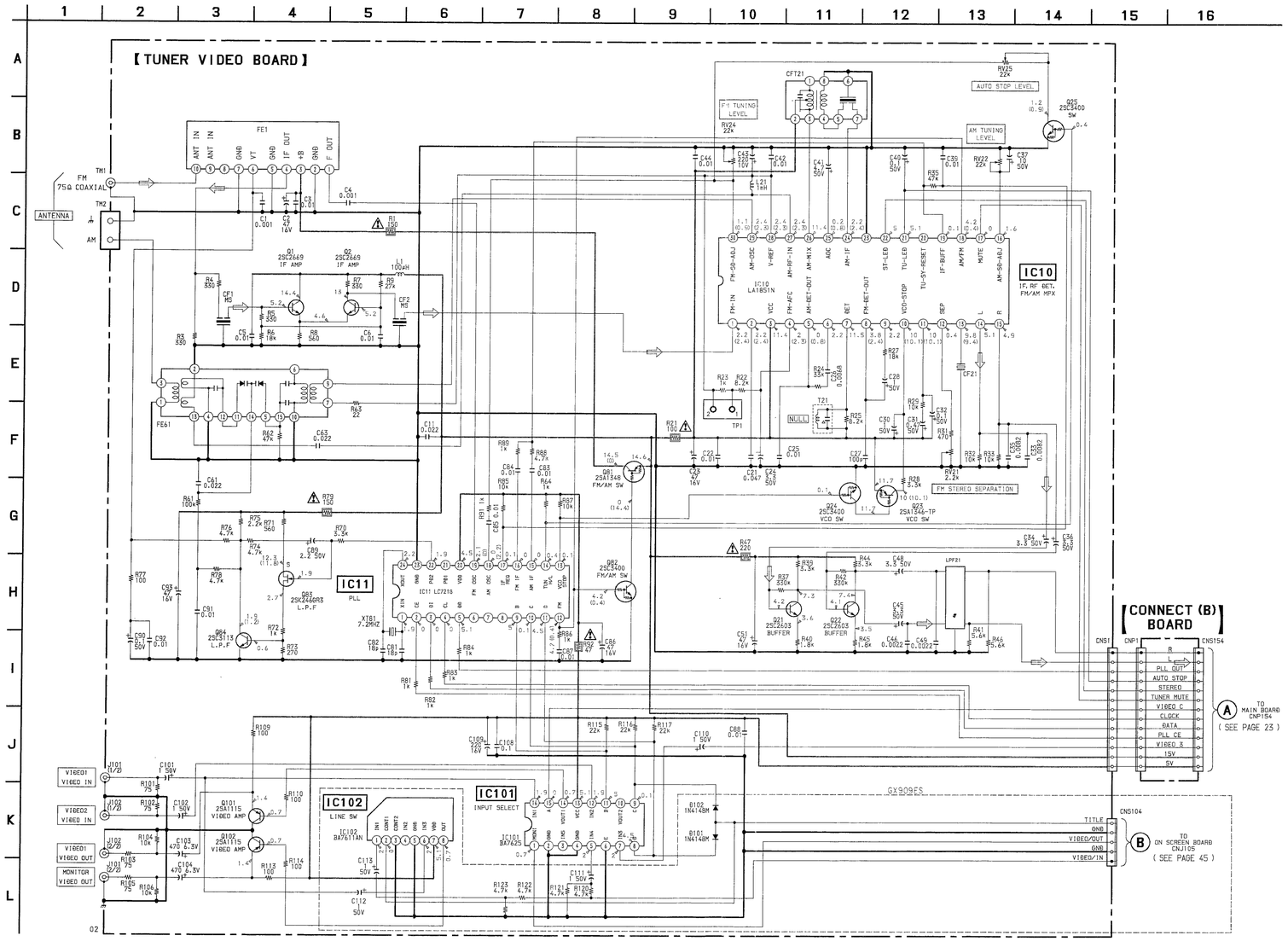
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.

4-3. PRINTED WIRING BOARDS – TUNER SECTION –

【TUNER VIDEO BOARD】



02



Note :

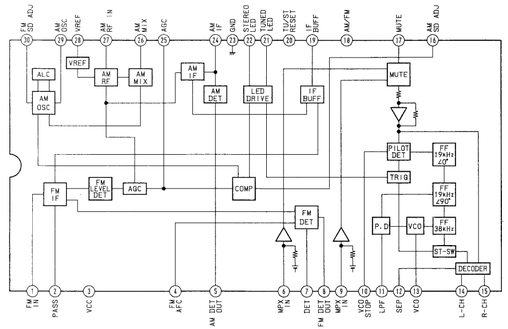
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▭ : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

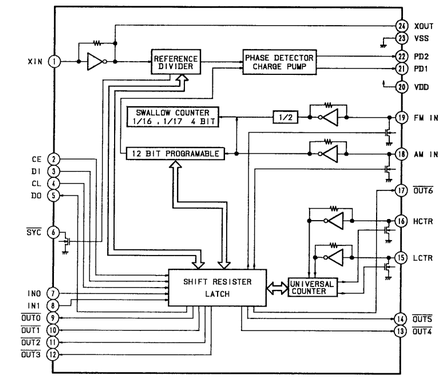
- ▭▭▭ : B+ Line
- ▭ ▭ ▭ : B – Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

● IC BLOCK DIAGRAMS

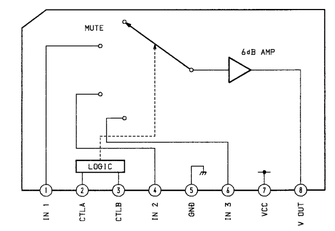
IC10 LA1851N



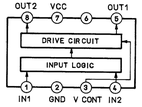
IC11 LC7218



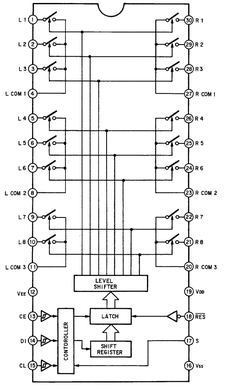
IC102 BA7611AN



IC231 LB1639



IC510, 511 LC7822



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line
- : B – Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : FM

4-6. PRINTED WIRING BOARDS – MAIN SECTION –

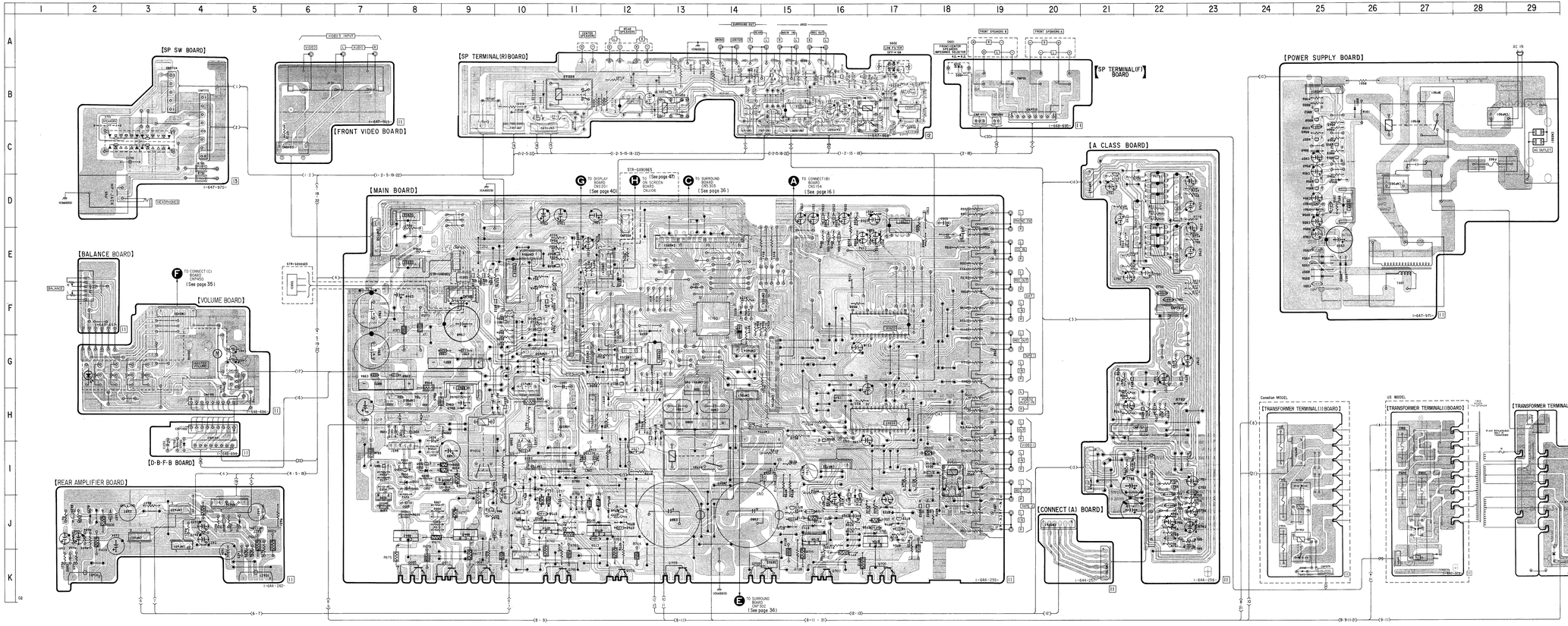
• Refer to page 14 for Semiconductor Lead Layouts.

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D150	K - 29	D1603	B - 16	Q658	I - 9
D252	F - 14	D1730	I - 4	Q662	J - 8
D253	E - 12			Q663	J - 9
D501	I - 18			Q664	K - 9
D610	H - 9	IC150	F - 14	Q665	K - 8
D611	H - 10	IC231	G - 13	Q667	J - 9
D620	J - 2	IC501	D - 17	Q702	K - 16
D623	G - 13	IC510	F - 17	Q704	J - 17
D640	J - 5	IC511	H - 17	Q705	K - 17
D651	I - 8	IC514	E - 10	Q708	J - 16
D652	I - 8	IC601	K - 2	Q709	K - 15
D654	I - 9	IC621	K - 5	Q711	J - 15
D701	J - 16	IC701	I - 22	Q712	J - 17
D702	J - 16	IC702	D - 22	Q713	J - 16
D703	J - 17	IC703	D - 22	Q714	J - 16
D704	J - 17	IC752	E - 22	Q715	J - 16
D705	H - 12	IC951	E - 8	Q716	H - 12
D715	J - 15	IC952	D - 8	Q720	F - 22
D716	J - 17	IC953	F - 9	Q721	F - 21
D718	H - 13	IC953	F - 6	Q752	K - 12
D719	H - 13	IC1601	B - 15	Q754	J - 10
D720	J - 16	IC1602	B - 17	Q755	K - 11
D723	J - 17	IC1603	B - 12	Q758	J - 11
D731	H - 12			Q759	K - 13
D751	J - 10			Q767	J - 10
D752	J - 10	Q250	G - 12	Q768	J - 12
D753	J - 11	Q255	H - 22	Q770	F - 22
D754	J - 12	Q256	G - 21	Q771	G - 22
D785	J - 12	Q257	G - 12	Q952	B - 25
D788	I - 10	Q501	I - 18	Q953	D - 28
Q780	I - 11	Q502	J - 18	Q954	D - 25
Q781	I - 10	Q503	H - 16	Q955	C - 25
D951	B - 26	Q507	E - 11	Q956	C - 25
D952	E - 25	Q508	E - 11	Q957	C - 25
D953	E - 25	Q509	F - 10	Q958	D - 25
D954	E - 25	Q510	F - 10	Q959	B - 25
D955	E - 25	Q511	F - 10	Q981	G - 9
D956	E - 25	Q512	F - 10	Q1601	B - 15
D957	E - 25	Q520	E - 9	Q1603	B - 10
D958	D - 25	Q521	E - 9	Q1604	B - 13
D959	D - 25	Q522	F - 10	Q1611	B - 16
D960	C - 25	Q523	E - 11	Q1612	B - 16
D961	D - 25	Q552	J - 17		
D963	H - 9	Q620	J - 2		
D966	K - 27	Q840	J - 4		
D966	K - 25	Q641	B - 12		
D967	J - 25	Q644	H - 10		
D670	G - 7	Q851	I - 8		
D971	G - 9	Q852	I - 8		
D973	F - 12	Q853	I - 8		
D980	H - 13	Q855	J - 7		
D1601	B - 10	Q856	J - 7		
D1602	B - 13	Q857	K - 9		

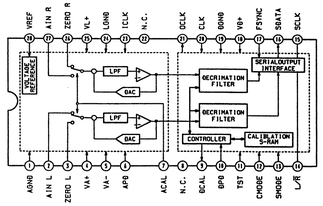
Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.

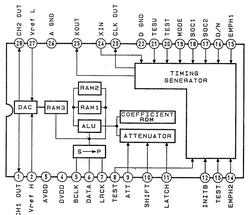


• IC BLOCK DIAGRAMS

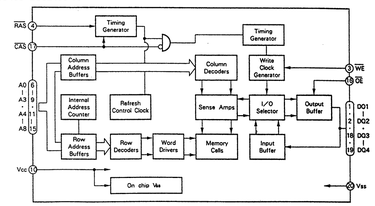
IC301 CS5339-KP



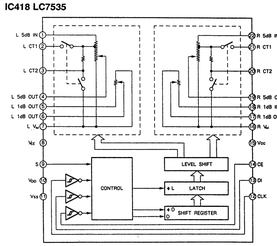
IC307 LC7883K



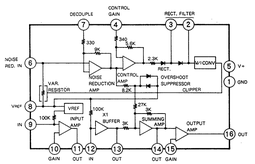
IC406 LC32456-10



IC418 LC7535



IC420 LA2730



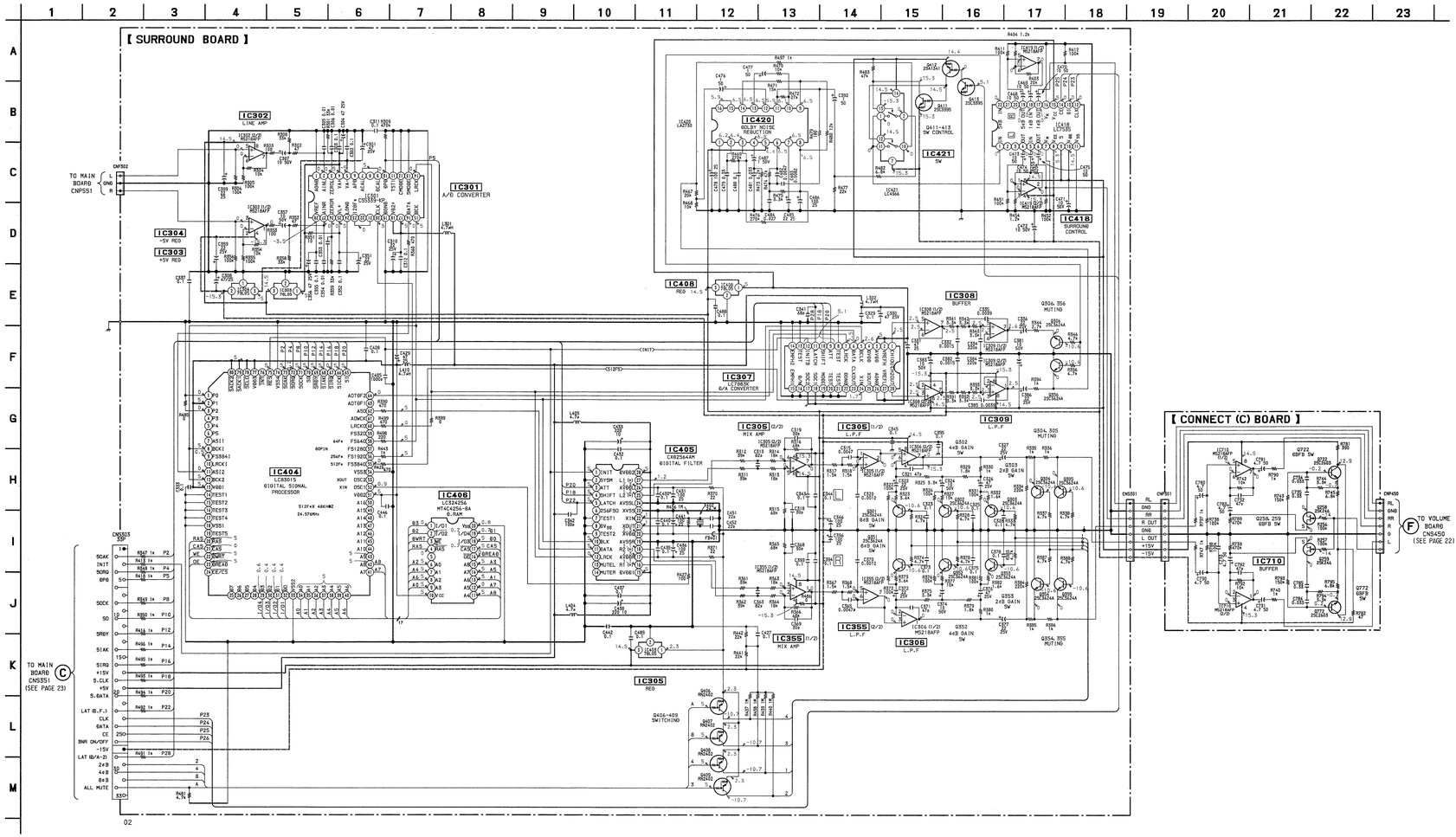
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▭▭▭ : nonflammable resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Note : Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

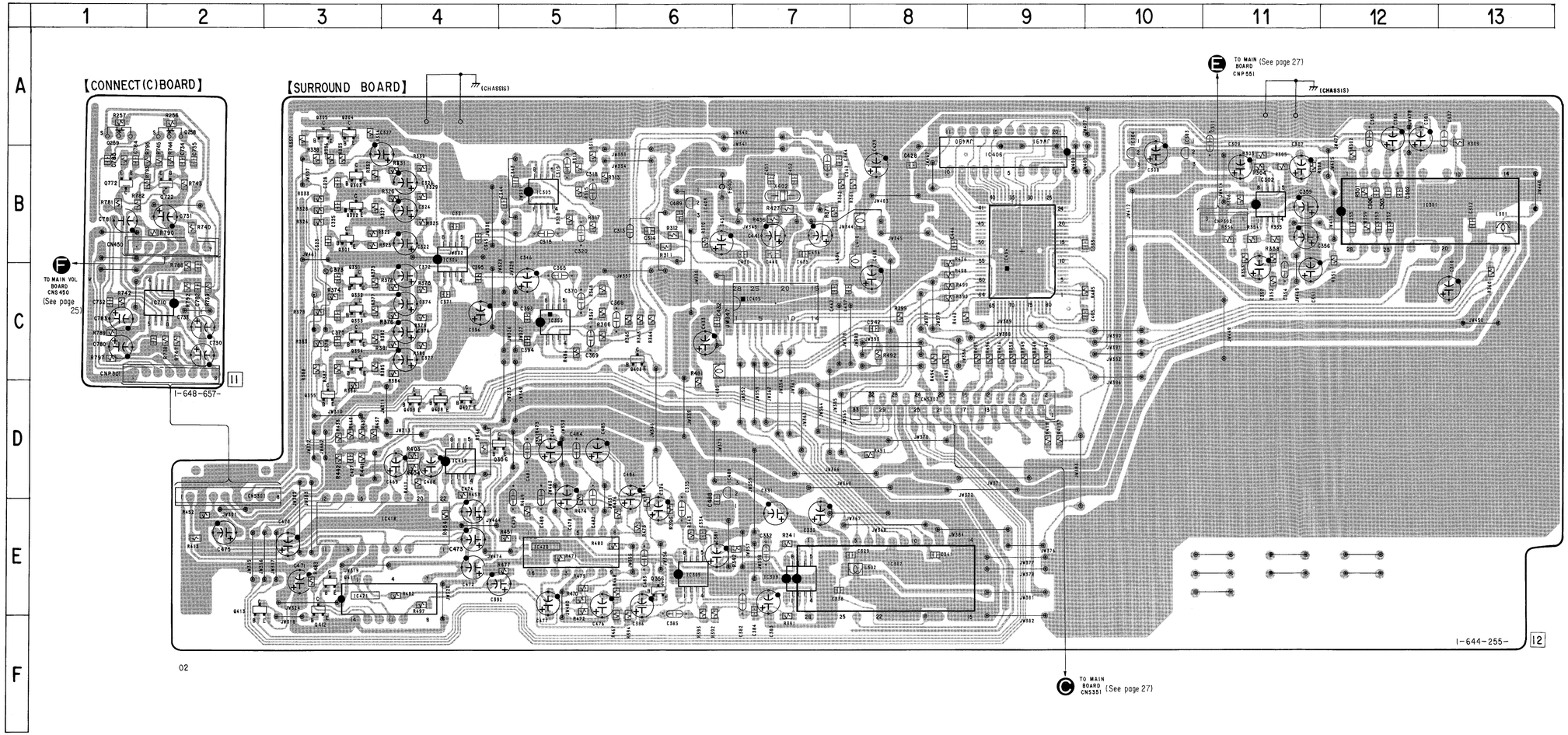
- ▬▬▬ : B+ Line
- ▬ ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

4-7. SCHEMATIC DIAGRAMS – DIGITAL SECTION –



4-8. PRINTED WIRING BOARDS – DIGITAL SECTION –

• Refer to page 14 for Semiconductor Lead Layouts.



• SEMICONDUCTOR LOCATION

Ref. No.	Location
IC301	B - 12
IC302	B - 11
IC303	B - 10
IC304	B - 10
IC305	B - 5
IC306	B - 4
IC307	E - 8
IC308	E - 7
IC309	E - 6
IC355	C - 5
IC403	B - 6
IC404	B - 9
IC405	C - 7
IC406	B - 9
IC408	D - 6
IC418	E - 4
IC419	D - 4
IC420	E - 5
IC421	E - 4
IC710	C - 2
Q258	A - 2
Q259	A - 1
Q301	B - 3
Q302	B - 3
Q303	B - 3
Q304	A - 3
Q305	A - 3
Q306	D - 5
Q351	C - 3
Q352	C - 3
Q353	C - 3
Q354	C - 3
Q355	D - 3
Q356	E - 6
Q406	C - 6
Q407	D - 4
Q408	D - 4
Q409	D - 4
Q411	E - 3
Q412	E - 3
Q413	E - 2
Q722	B - 2
Q772	B - 1

Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.

4-9. PRINTED WIRING BOARDS – DISPLAY SECTION –

● Refer to page 14 for Semiconductor Lead Layouts.

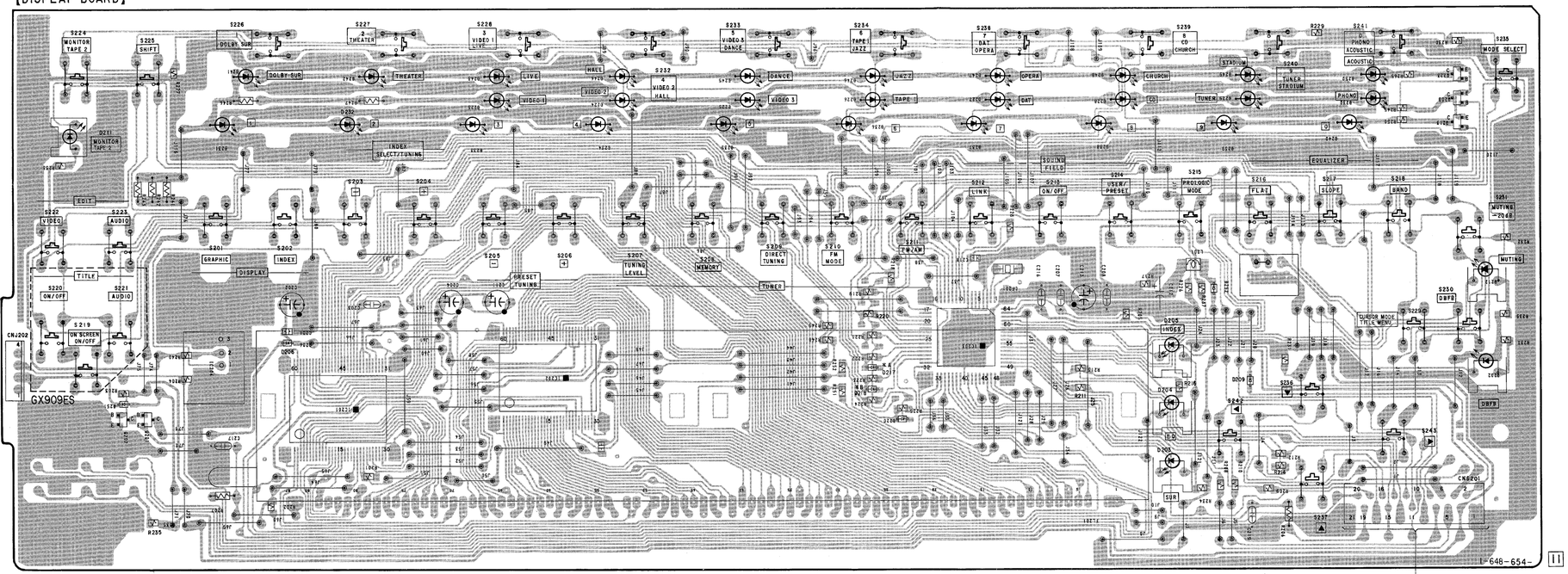
● SEMICONDUCTOR LOCATION

Ref. No.	Location
IC201	D-4
IC202	D-5
IC203	D-9
IC204	D-3
D202	D-13
D203	E-11
D204	D-11
D205	D-11
D206	D-3
D209	D-11
D211	B-2
D212	C-13
D223	B-5
D224	B-6
D225	B-7
D226	B-8
D227	B-9
D228	B-10
D229	B-11
D230	B-12
D231	B-3
D232	B-4
D233	B-5
D234	B-6
D235	B-7
D236	B-8
D237	B-9
D238	B-10
D239	B-11
D240	B-12
D241	A-3
D242	A-4
D243	A-5
D244	A-6
D245	A-7
D246	A-8
D247	A-9
D248	A-10
D249	A-11
D250	A-12
D251	D-2
D252	C-11
Q201	D-2
Q202	D-2
Q203	B-13
Q213	B-13
Q223	A-13

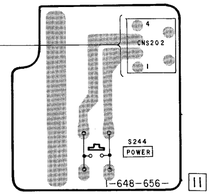
Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.

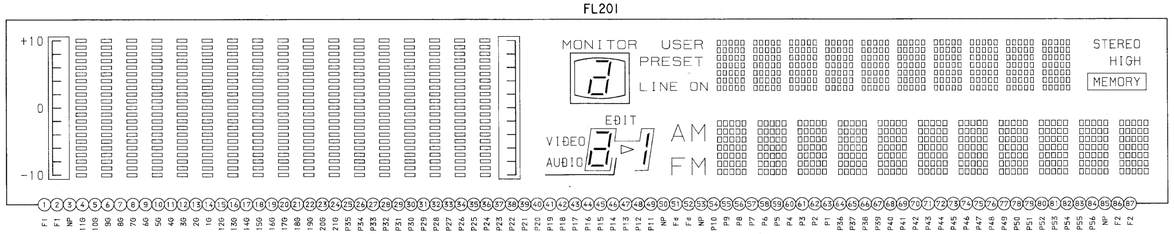
【DISPLAY BOARD】

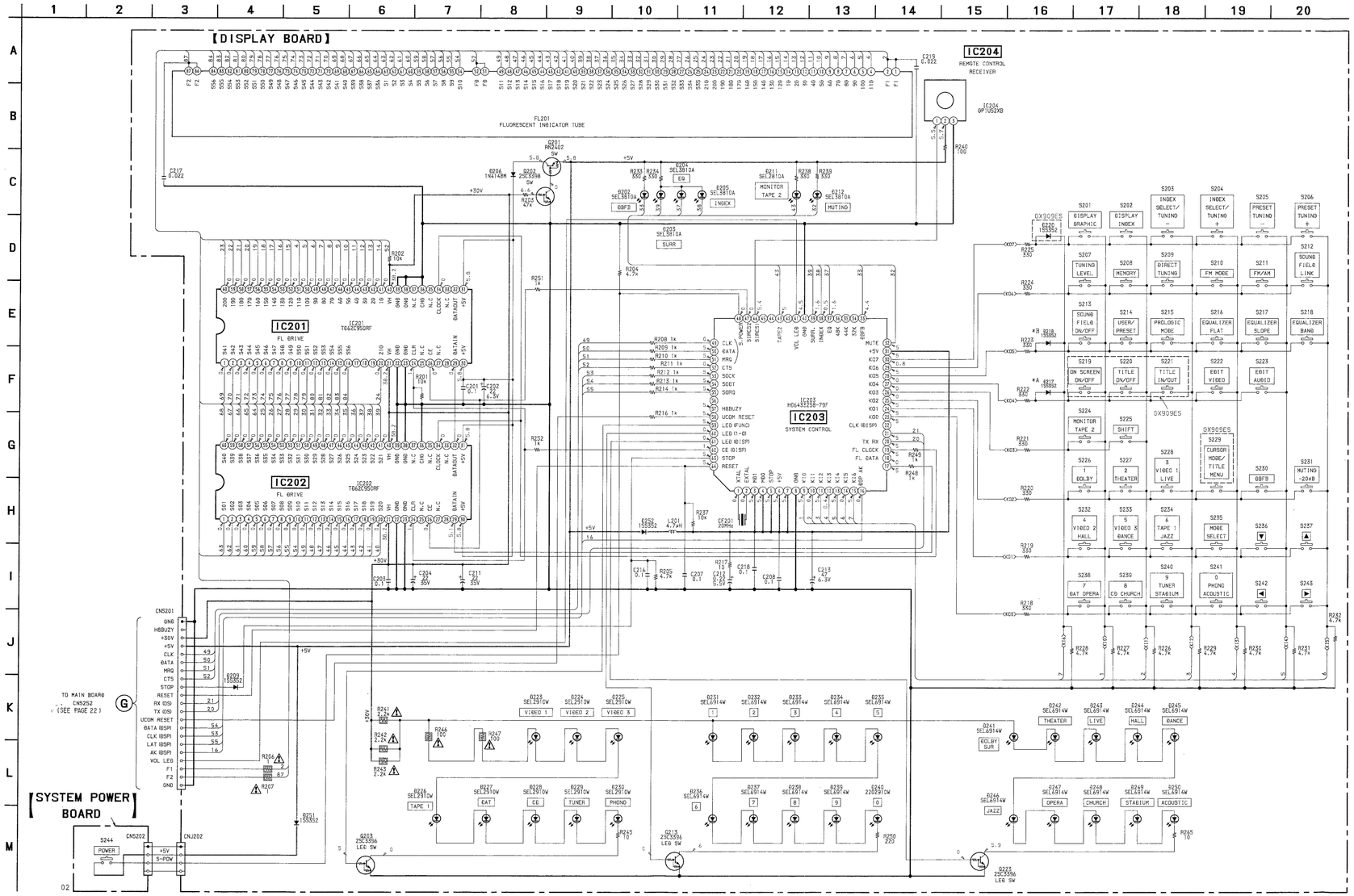


【SYSTEM POWER BOARD】



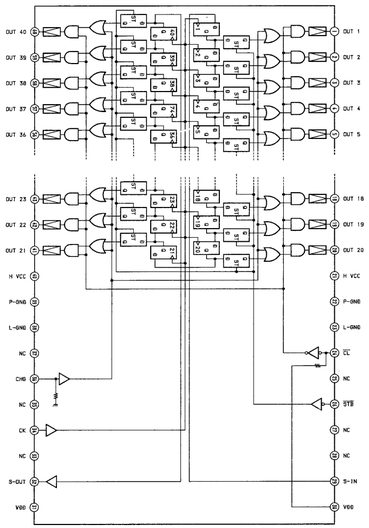
FL201





● IC BLOCK DIAGRAMS

IC201, 202 TD62C950RF



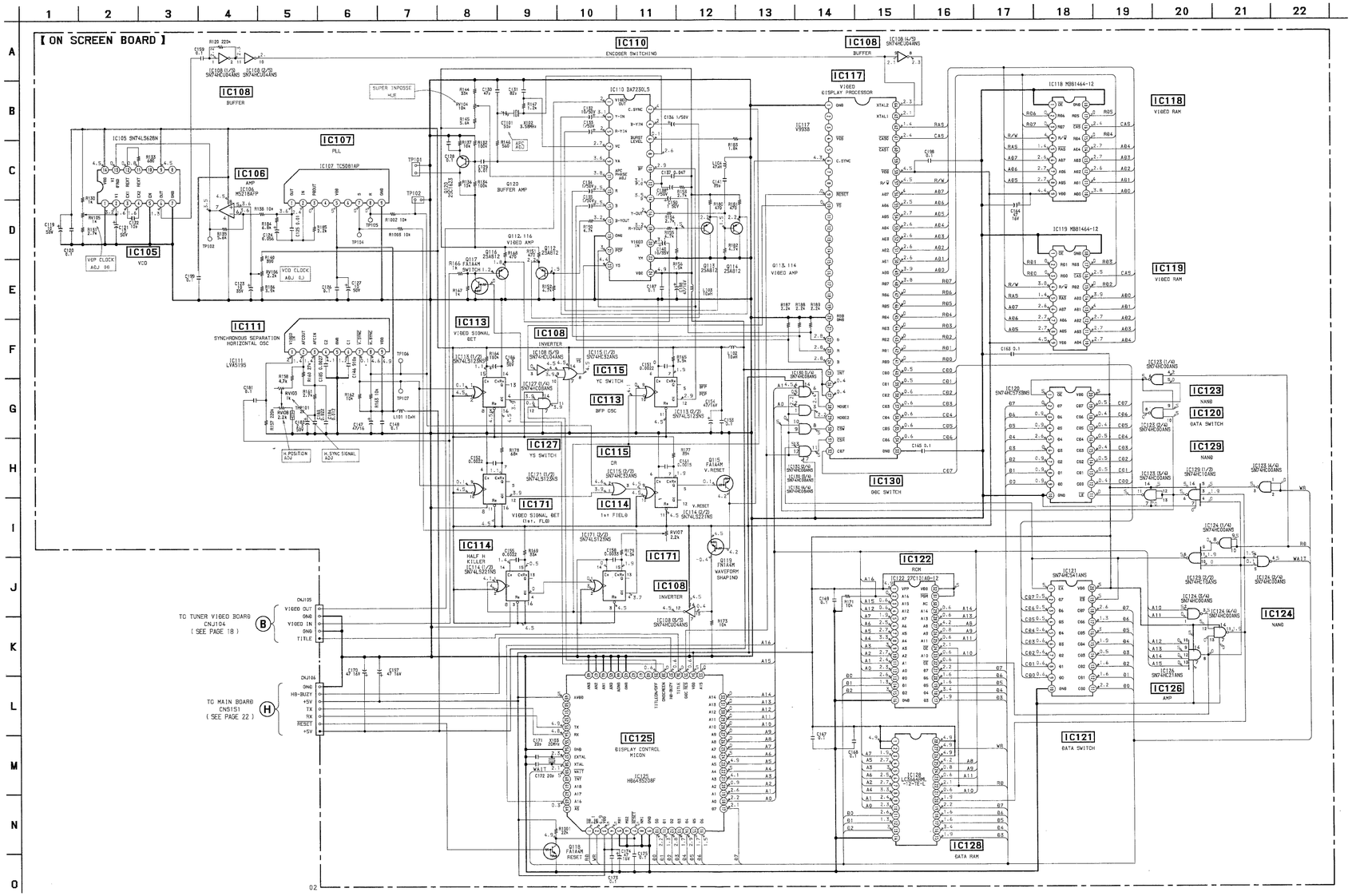
Note :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ⚠ : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line
- : B – Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- See page 9 for ∗A, ∗B note.

4-11. SCHEMATIC DIAGRAMS – VDP SECTION – (STR-GX909ES ONLY)



Note :

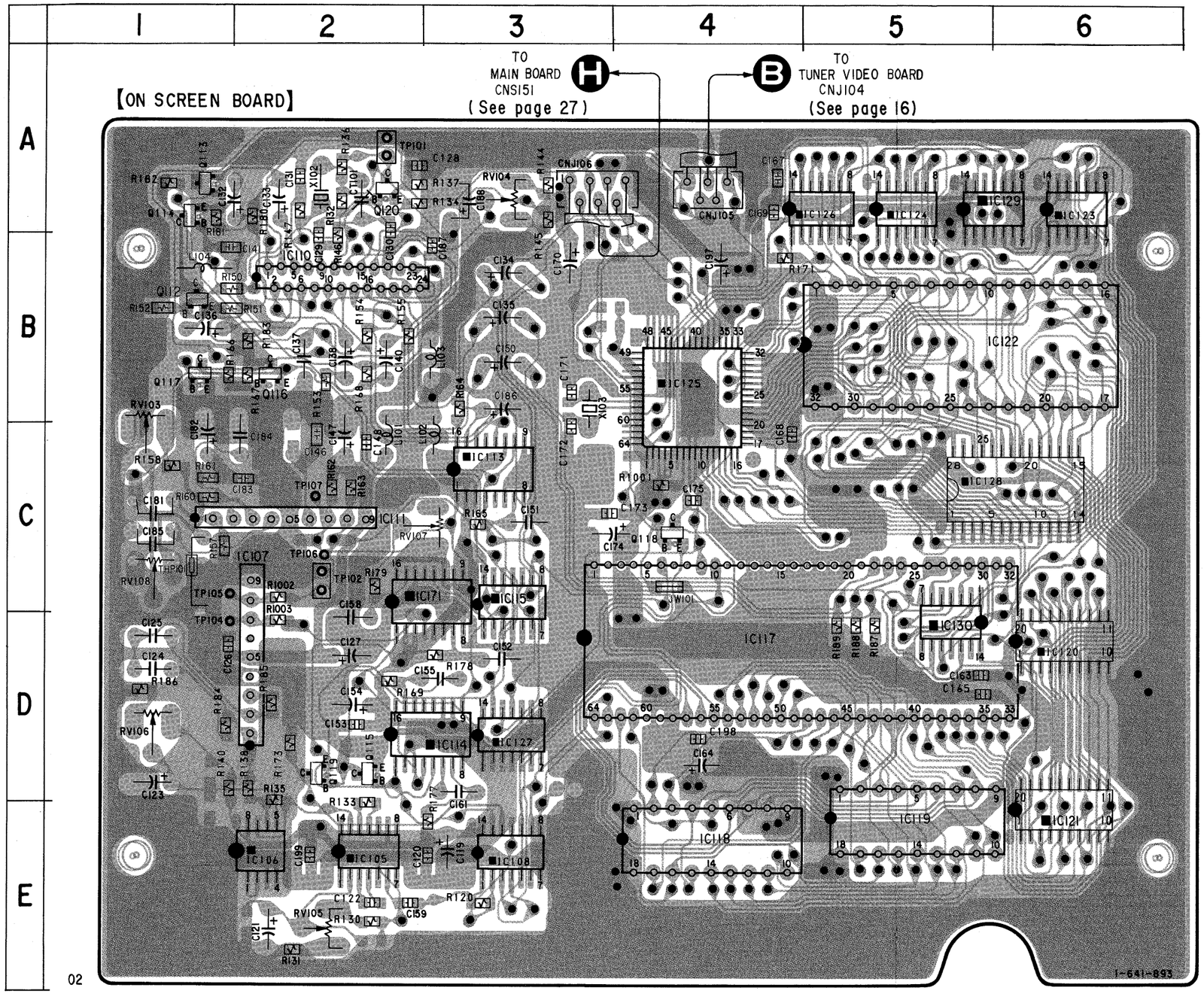
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line
- : B – Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

4-12. PRINTED WIRING BOARDS – VDP SECTION – (STR-GX909ES ONLY)

• Refer to page 14 for Semiconductor Lead Layouts.



• **SEMICONDUCTOR LOCATION**

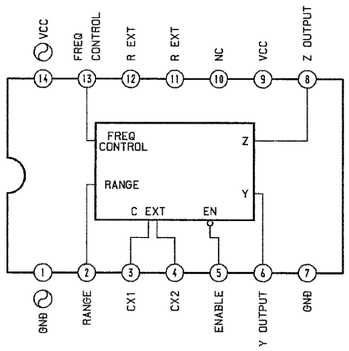
Ref. No.	Location
IC105	E-2
IC106	E-2
IC107	D-2
IC108	E-3
IC110	B-2
IC111	C-2
IC113	C-3
IC114	D-3
IC115	C-3
IC117	D-4
IC118	E-4
IC119	E-5
IC120	D-6
IC121	E-6
IC122	B-5
IC123	A-6
IC124	A-5
IC125	B-4
IC126	A-5
IC127	D-3
IC128	C-6
IC129	A-6
IC130	D-5
IC171	C-3
Q112	B-1
Q113	A-1
Q114	A-1
Q115	D-2
Q116	B-2
Q117	B-1
Q118	C-4
Q119	D-2
Q120	A-2

Note:

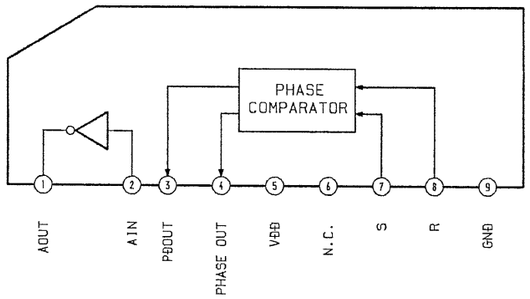
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.

● IC Block Diagrams

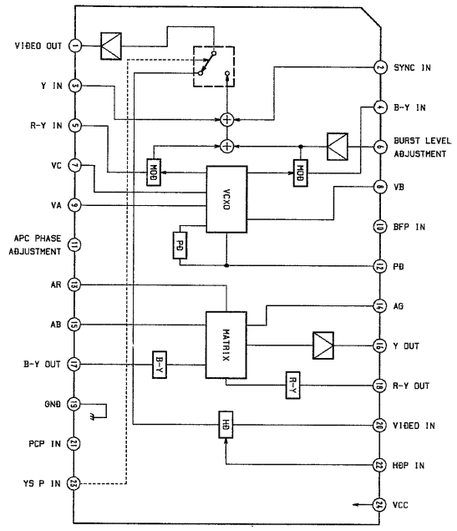
IC105 SN74LS628NS



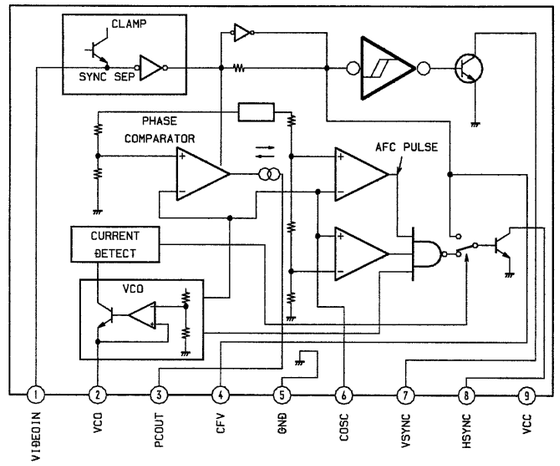
IC107 TC5081AP



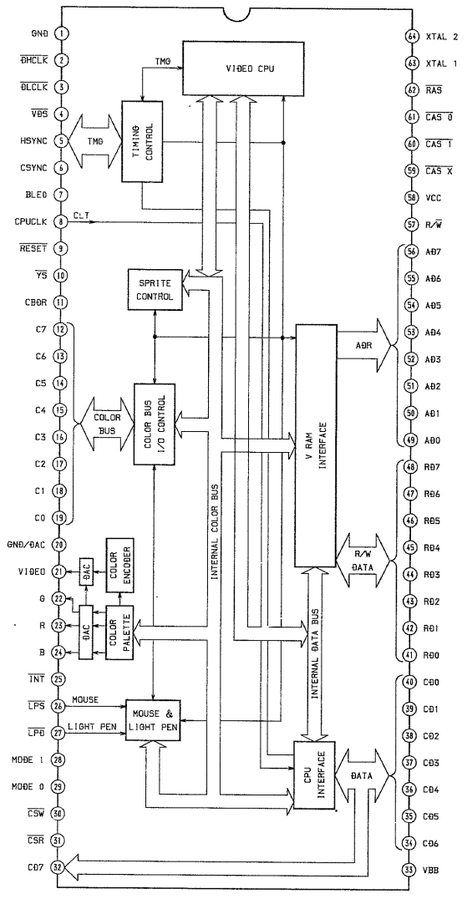
IC110 BA7230LS



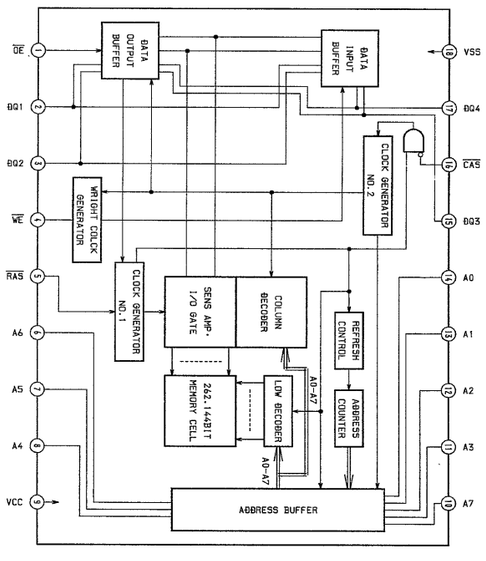
IC111 LVA519S



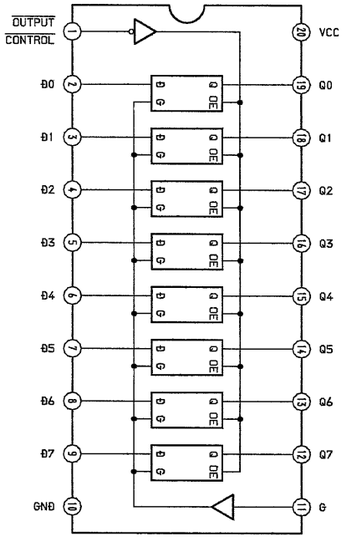
IC117 V9938



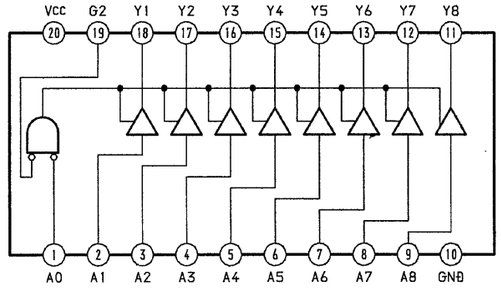
IC118, 119 MB81464-12



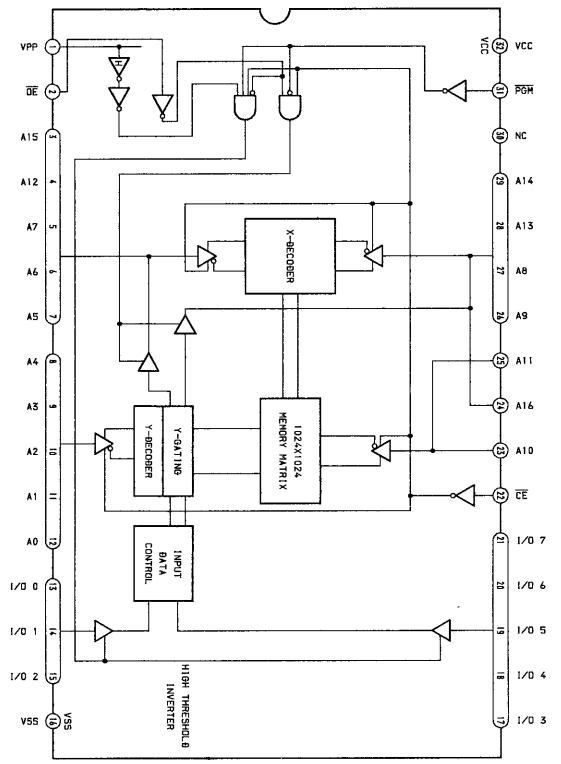
IC120 SN74HC573BNS



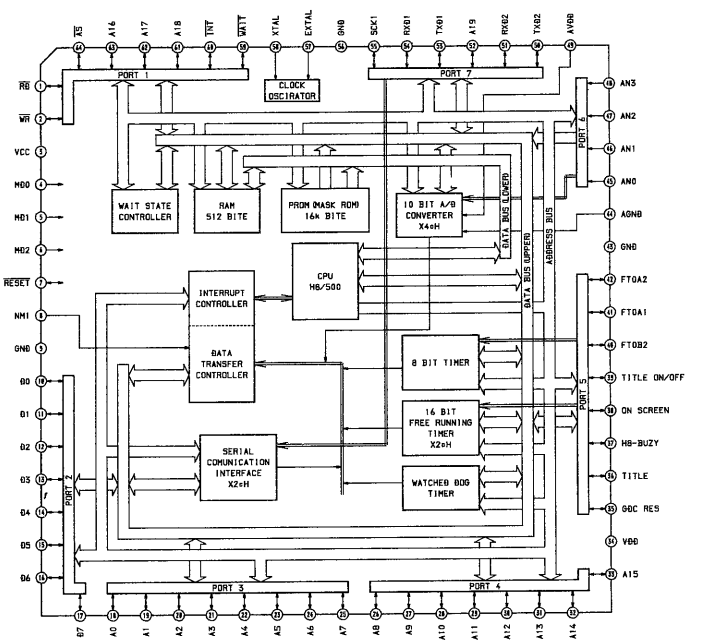
IC121 SN74HC541ANS



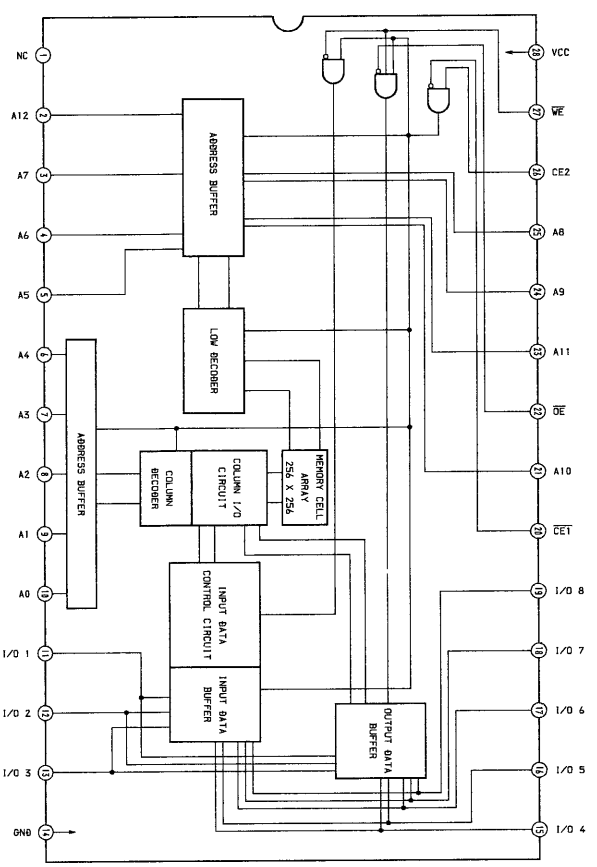
IC122 HN27C101AP12-R001



IC125 HD6435208F



IC128 LC3664RML-12



SECTION 5
EXPLODED VIEWS

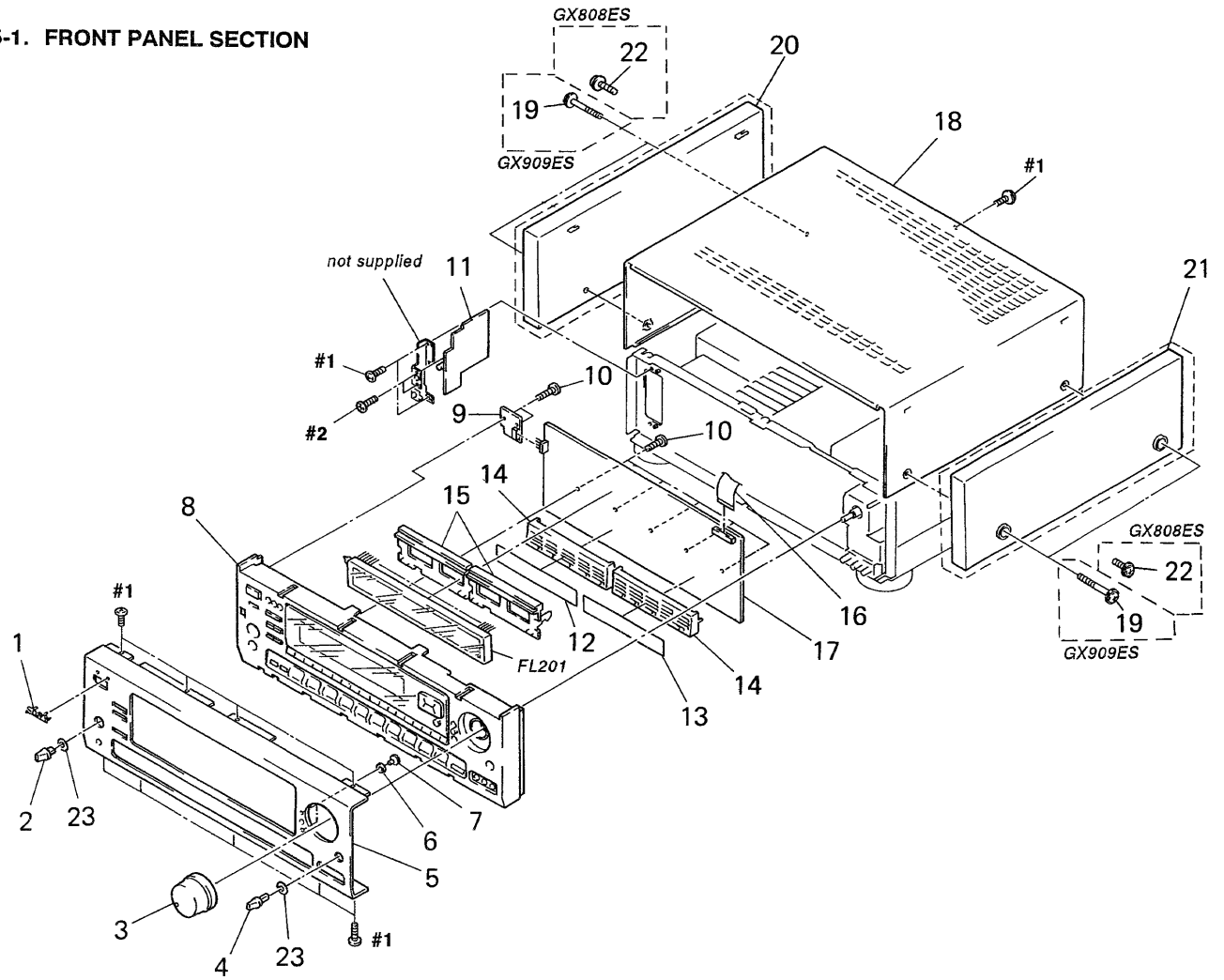
NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts Example :
  KNOB, BALANCE (WHITE)....(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark)list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

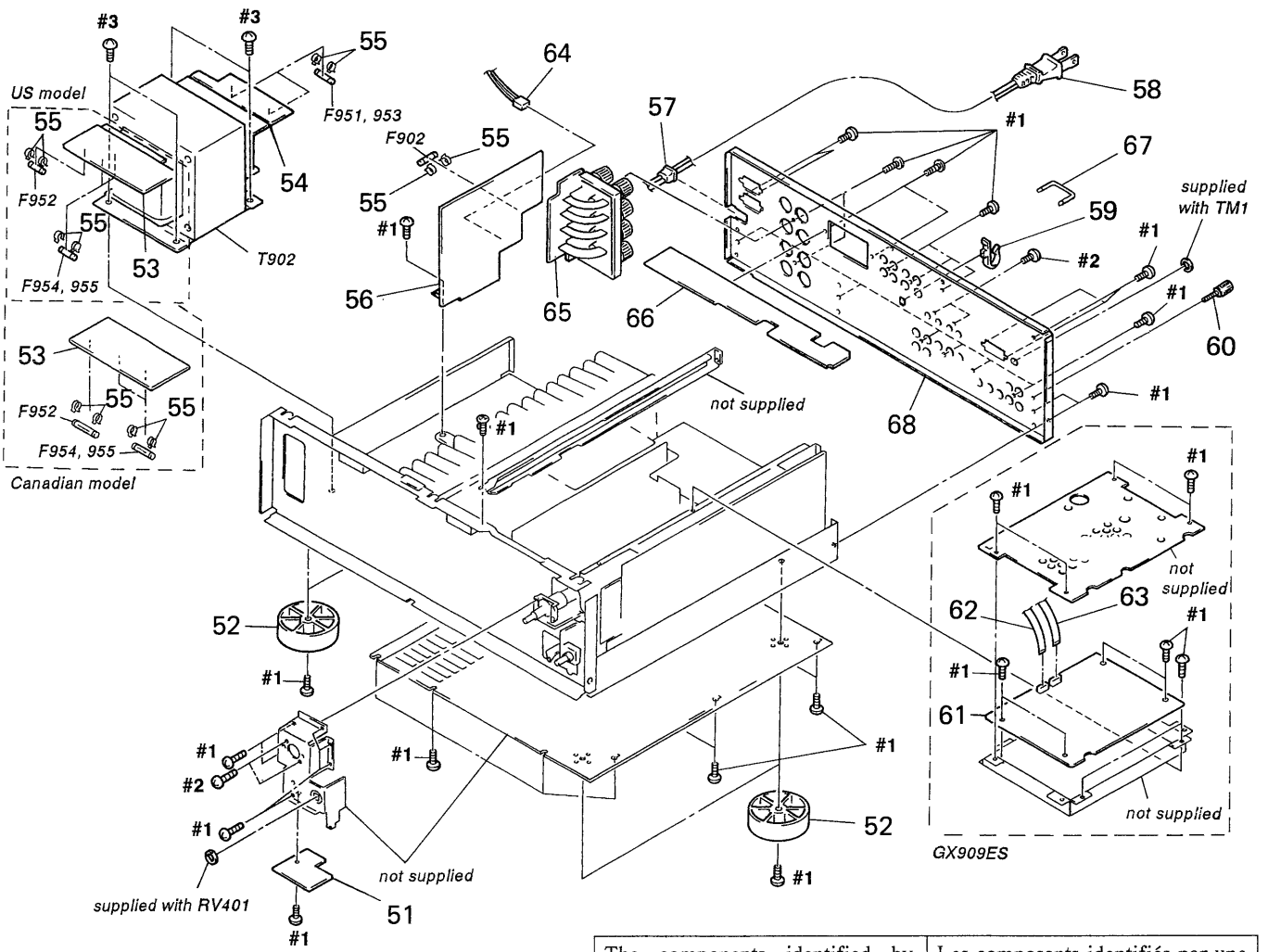
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-942-568-01	EMBLEM (NO. 5), SONY	
2	4-908-097-21	KNOB (SPEAKER)	
3	X-4941-650-1	KNOB (A) ASSY	
4	4-925-014-01	KNOB (DIA. 10)	
5	4-952-498-21	PANEL (F), FRONT (GX909ES)	
5	4-952-498-31	PANEL (F), FRONT (GX808ES)	
* 6	4-927-881-01	SHEET, ADHESIVE	
7	4-938-518-01	INDICATOR (C)	
8	X-4943-634-3	PANEL (B) ASSY, FRONT (GX808ES)	
8	X-4943-635-2	PANEL (B) ASSY, FRONT (GX909ES)	
* 9	1-648-656-11	SYSTEM POWER BOARD	
10	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
* 11	1-647-970-11	SP SW BOARD	
* 12	4-954-181-01	PLATE (F), INDICATION	
* 13	4-954-181-11	PLATE (F), INDICATION	
* 14	4-952-473-01	HOLDER (S), LED	
* 15	4-952-472-01	HOLDER (S), FL TUBE	
16	1-690-091-11	WIRE, FLAT TYPE (21 CORE)	
* 17	A-4360-647-A	DISPLAY BOARD, COMPLETE (GX808ES)	
* 17	A-4360-683-A	DISPLAY BOARD, COMPLETE (GX909ES)	
* 18	4-927-877-11	CASE	
19	4-933-446-01	SCREW (SIDE PANEL) (GX909ES)	
* 20	X-4911-218-1	PANEL (L) ASSY, SIDE (GX909ES)	
* 21	X-4911-219-1	PANEL (R) ASSY, SIDE (GX909ES)	
22	3-704-366-01	SCREW (CASE) (M3X8)	
23	9-910-999-31	SHEET (W), BLIND	
FL201	1-519-724-11	INDICATOR TUBE, FLUORESCENT	

5-2. CHASSIS SECTION

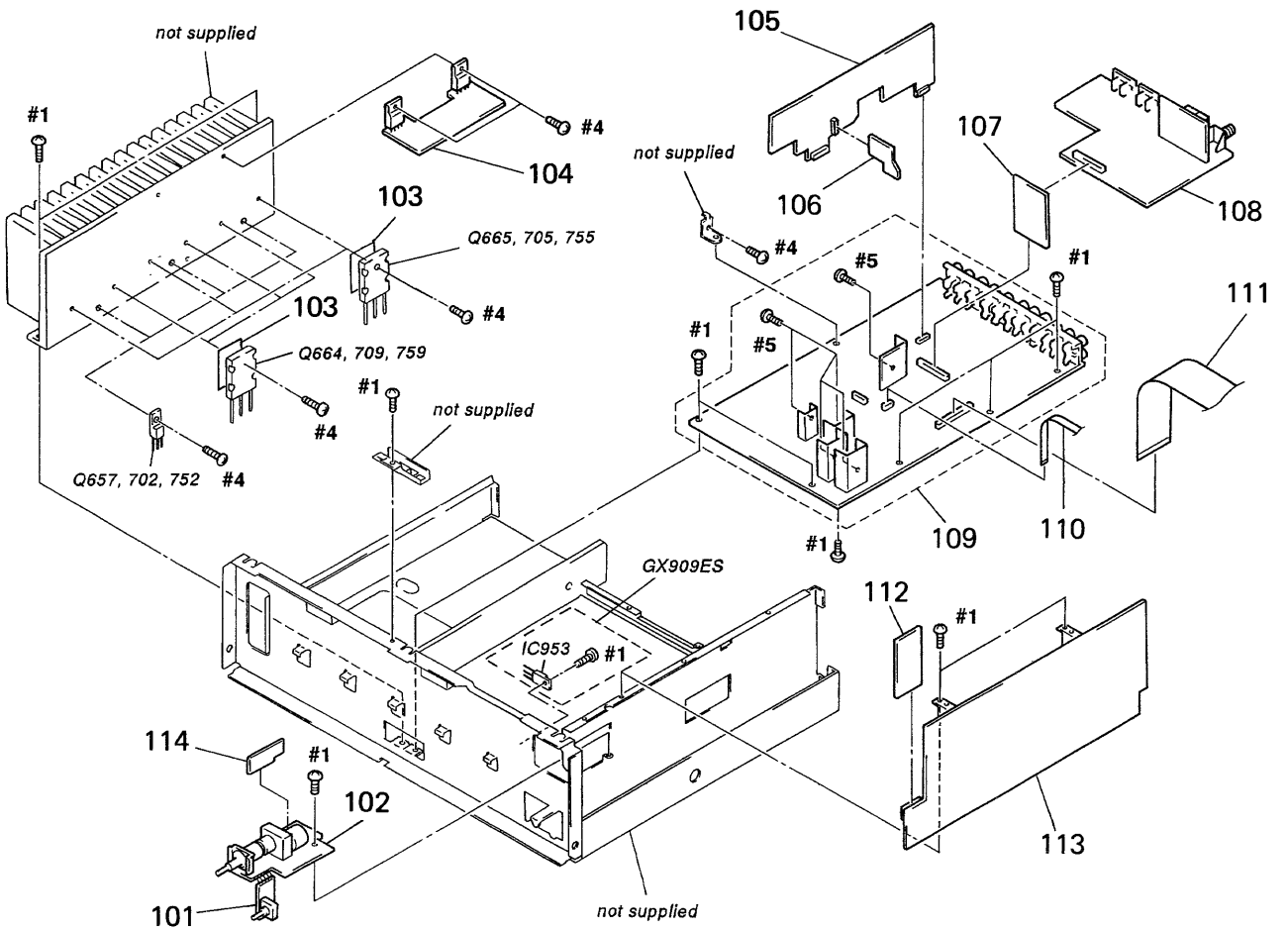


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 51	1-647-969-11	FRONT VIDEO BOARD	
52	X-4941-617-1	FOOT (58175) ASSY	
* 53	1-647-972-11	TRANSFORMER TERMINAL(1) BOARD (GX808ES/G909ES:US)	
* 53	1-645-942-11	TRANSFORMER TERMINAL(1) BOARD (GX808ES/GX909ES:Canadian)	
* 54	1-647-973-11	TRANSFORMER TERMINAL(2) BOARD	
* 55	1-533-293-11	FUSE HOLDER	
* 56	A-4360-663-A	POWER SUPPLY BOARD, COMPLETE	
* 57	3-703-244-00	BUSHING (2104), CORD	
⚠58	1-575-975-11	CORD, POWER	
* 59	4-949-235-01	HOOK	
60	4-947-010-01	SCREW, FEEDER FIXED	
* 61	A-4365-078-A	ON SCREEN BOARD, COMPLETE (GX909ES)	
62	1-575-777-11	WIRE, FLAT TYPE (5 CORE)(GX909ES)	
63	1-690-421-11	WIRE, FLAT TYPE (7 CORE)(GX909ES)	
64	1-696-073-21	LEAD (WITH CONNECTOR) (2 CORE)	

Ref. No.	Part No.	Description	Remark
65	1-648-695-11	SP TERMINAL (F) BOARD	
* 66	A-4360-660-A	SP TERMINAL (R) BOARD, COMPLETE	
67	1-535-706-11	PLUG, JUMPER	
* 68	4-958-257-01	PANEL, BACK (GX909ES:US)	
* 68	4-958-257-11	PANEL, BACK (GX909ES:Canadian)	
* 68	4-958-257-21	PANEL, BACK (GX808ES:US)	
* 68	4-958-257-31	PANEL, BACK (GX808ES:Canadian)	
⚠F902	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
⚠F951	1-576-109-11	FUSE (5A/125V)	
⚠F952	1-576-108-11	FUSE (4A/125V)	
⚠F953	1-576-109-11	FUSE (5A/125V)	
⚠F954	1-532-749-11	FUSE, GLASS TUBE (8A)	
⚠F955	1-532-749-11	FUSE, GLASS TUBE (8A)	
⚠T902	1-423-642-11	TRANSFORMER, POWER (GX808ES:US)	
⚠T902	1-423-645-11	TRANSFORMER, POWER (GX909ES:US)	
⚠T902	1-423-695-11	TRANSFORMER, POWER (GX909ES:Canadian)	
⚠T902	1-423-696-11	TRANSFORMER, POWER (GX808ES:Canadian)	

5-3. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
* 101	1-648-697-11	BALANCE BOARD	
* 102	1-648-696-11	VOLUME BOARD	
103	4-958-259-01	SHEET, RADIATION	
* 104	A-4360-673-A	REAR AMPLIFIER BOARD, COMPLETE	
* 105	A-4360-676-A	A CLASS BOARD, COMPLETE	
* 106	1-644-257-11	CONNECT (A) BOARD	
* 107	1-648-693-11	CONNECT (B) BOARD	
* 108	A-4360-659-A	TUNER VIDEO BOARD, COMPLETE (GX909ES)	
* 108	A-4360-929-A	TUNER VIDEO BOARD, COMPLETE (GX808ES)	
* 109	A-4360-646-A	MAIN BOARD, COMPLETE (GX808ES:US)	
* 109	A-4360-648-A	MAIN BOARD, COMPLETE (GX808ES:Canadian)	
* 109	A-4360-672-A	MAIN BOARD, COMPLETE (GX909ES:US)	
* 109	A-4360-684-A	MAIN BOARD, COMPLETE (GX909ES:Canadian)	
110	1-575-848-11	WIRE, FLAT TYPE (5 CORE)	
111	1-696-550-11	WIRE (FLAT TYPE) (33 CORE)	

Ref. No.	Part No.	Description	Remark
* 112	A-4360-682-A	CONNECT (C) BOARD, COMPLETE	
* 113	A-4360-681-A	SURROUND BOARD, COMPLETE	
* 114	1-648-694-11	DBFB BOARD	
IC953	8-759-231-53	IC M5F7805 (GX909ES)	
Q657	8-729-209-15	TRANSISTOR 2SD2012	
Q664	8-729-021-05	TRANSISTOR 2SA1553-RO	
Q665	8-729-021-06	TRANSISTOR 2SC4029-RO	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
Q705	8-729-021-06	TRANSISTOR 2SC4029-RO	
Q709	8-729-021-05	TRANSISTOR 2SA1553-RO	
Q752	8-729-209-15	TRANSISTOR 2SD2012	
Q755	8-729-021-06	TRANSISTOR 2SC4029-RO	
Q759	8-729-021-05	TRANSISTOR 2SA1553-RO	

SECTION 6
ELECTRICAL PARTS LIST

A CLASS

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-4360-676-A	A CLASS BOARD, COMPLETE **********			
		< CAPACITOR >			
C270	1-136-165-00	FILM	0.1uF	5%	50V
C271	1-124-907-11	ELECT	10uF	20%	50V
C701	1-124-927-11	ELECT	4.7uF	20%	100V
C702	1-164-070-11	CERAMIC	100PF	5%	50V
C703	1-162-219-31	CERAMIC	68PF	5%	50V
C704	1-164-072-11	CERAMIC	120PF	5%	50V
C705	1-102-936-00	CERAMIC	3.0PF	+-0.25PF	50V
C706	1-124-443-00	ELECT	100uF	20%	10V
C716	1-124-931-11	ELECT	47uF	20%	100V
C727	1-164-159-11	CERAMIC	0.1uF		50V
C736	1-164-077-11	CERAMIC	220PF	10%	50V
C737	1-124-927-11	ELECT	4.7uF	20%	100V
C740	1-124-907-11	ELECT	10uF	20%	50V
C741	1-124-907-11	ELECT	10uF	20%	50V
C742	1-124-907-11	ELECT	10uF	20%	50V
C743	1-124-902-00	ELECT	0.47uF	20%	50V
C751	1-124-927-11	ELECT	4.7uF	20%	100V
C752	1-164-070-11	CERAMIC	100PF	5%	50V
C753	1-162-219-31	CERAMIC	68PF	5%	50V
C754	1-164-072-11	CERAMIC	120PF	5%	50V
C755	1-102-936-00	CERAMIC	3.0PF	+-0.25PF	50V
C756	1-124-443-00	ELECT	100uF	20%	10V
C766	1-124-931-11	ELECT	47uF	20%	100V
C786	1-164-077-11	CERAMIC	220PF	10%	50V
C787	1-124-927-11	ELECT	4.7uF	20%	100V
C790	1-124-907-11	ELECT	10uF	20%	50V
C791	1-124-907-11	ELECT	10uF	20%	50V
C792	1-124-907-11	ELECT	10uF	20%	50V
C793	1-124-902-00	ELECT	0.47uF	20%	50V
		< CONNECTOR >			
CNP761	1-691-163-11	PIN, CONNECTOR 6P			
* CNP762	1-691-175-11	CONNECTOR (BOARD TO BOARD) 5P			
CNP763	1-691-178-11	CONNECTOR (BOARD TO BOARD) 8P			
* CNP764	1-564-508-11	PLUG, CONNECTOR 5P			

Ref.No.	Part No.	Description			Remark
		< IC >			
IC701	8-749-921-85	IC STK-3122-3			
IC702	8-759-501-55	IC BA6125			
IC703	8-759-634-50	IC M5218AL			
IC752	8-759-501-55	IC BA6125			
		< PHOTO INTERRUPTER >			
PH701	8-719-946-27	DIODE PC837			
PH751	8-719-946-27	DIODE PC837			
		< TRANSISTOR >			
Q255	8-729-900-63	TRANSISTOR DTA124ES			
Q256	8-729-900-63	TRANSISTOR DTA124ES			
Q721	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q771	8-729-141-30	TRANSISTOR 2SC3623A-LK			
		< RESISTOR >			
R259	1-249-437-11	CARBON	47K	5%	1/4W
R260	1-249-437-11	CARBON	47K	5%	1/4W
R261	1-249-417-11	CARBON	1K	5%	1/4W
R262	1-249-429-11	CARBON	10K	5%	1/4W
R263	1-249-429-11	CARBON	10K	5%	1/4W
R270	1-249-433-11	CARBON	22K	5%	1/4W
R271	1-249-433-11	CARBON	22K	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W
R703	1-249-437-11	CARBON	47K	5%	1/4W
R704	1-249-413-11	CARBON	470	5%	1/4W
R705	1-249-437-11	CARBON	47K	5%	1/4W
R706	1-249-419-11	CARBON	1.5K	5%	1/4W
R716	1-249-417-11	CARBON	1K	5%	1/4W
R717	1-249-427-11	CARBON	6.8K	5%	1/4W
R718	1-249-441-11	CARBON	100K	5%	1/4W
R719	1-249-441-11	CARBON	100K	5%	1/4W
R720	1-249-429-11	CARBON	10K	5%	1/4W
R721	1-249-427-11	CARBON	6.8K	5%	1/4W
R722	1-247-848-11	CARBON	5.1K	5%	1/4W
R723	1-249-432-11	CARBON	18K	5%	1/4W
R724	1-249-429-11	CARBON	10K	5%	1/4W
R741	1-249-417-11	CARBON	1K	5%	1/4W

A CLASS BALANCE CONNECT(A) CONNECT(B) CONNECT(C)

Ref. No.	Part No.	Description				Remark
R742	1-249-441-11	CARBON	100K	5%	1/4W	
R748	1-249-441-11	CARBON	100K	5%	1/4W	
R751	1-249-417-11	CARBON	1K	5%	1/4W	
R753	1-249-437-11	CARBON	47K	5%	1/4W	
R754	1-249-413-11	CARBON	470	5%	1/4W	
R755	1-249-437-11	CARBON	47K	5%	1/4W	
R756	1-249-419-11	CARBON	1.5K	5%	1/4W	
R766	1-249-417-11	CARBON	1K	5%	1/4W	
R767	1-249-427-11	CARBON	6.8K	5%	1/4W	
R768	1-249-441-11	CARBON	100K	5%	1/4W	
R769	1-249-441-11	CARBON	100K	5%	1/4W	
R770	1-249-429-11	CARBON	10K	5%	1/4W	
R771	1-249-427-11	CARBON	6.8K	5%	1/4W	
R772	1-247-848-11	CARBON	5.1K	5%	1/4W	
R773	1-249-432-11	CARBON	18K	5%	1/4W	
R774	1-249-429-11	CARBON	10K	5%	1/4W	
R792	1-249-441-11	CARBON	100K	5%	1/4W	
R797	1-249-417-11	CARBON	1K	5%	1/4W	
R798	1-249-441-11	CARBON	100K	5%	1/4W	

****

* 1-648-697-11 BALANCE BOARD
****

< VARIABLE RESISTOR >

RV401 1-241-963-11 RES, VAR, CARBON 100K/100K (BALANCE)

****

* 1-644-257-11 CONNECT (A) BOARD
****

< CONNECTOR >

* CNS751 1-691-176-11 CONNECTOR (BOARD TO BOARD) 6P
* CNS761 1-691-176-11 CONNECTOR (BOARD TO BOARD) 6P

****

* 1-648-693-11 CONNECT (B) BOARD
****

< CONNECTOR >

CNP1 1-691-170-11 PIN, CONNECTOR 13P
* CNP154 1-691-183-11 CONNECTOR (BOARD TO BOARD) 13P

****

* A-4360-682-A CONNECT (C) BOARD, COMPLETE
****

< CAPACITOR >

C730	1-124-927-11	ELECT	4.7uF	20%	100V
C731	1-124-927-11	ELECT	4.7uF	20%	100V
C732	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C733	1-124-927-11	ELECT	4.7uF	20%	100V
C734	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C735	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C780	1-124-927-11	ELECT	4.7uF	20%	100V
C781	1-124-927-11	ELECT	4.7uF	20%	100V
C782	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C783	1-124-927-11	ELECT	4.7uF	20%	100V
C784	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C785	1-164-336-11	CERAMIC CHIP	0.33uF		25V

< CONNECTOR >

CNP301 1-573-146-11 PLUG, CONNECTOR 8P
CNP450 1-691-164-11 PIN, CONNECTOR 7P

< IC >

IC710 8-759-636-55 IC M5218AFP

< TRANSISTOR >

Q258	8-729-201-56	TRANSISTOR	2SK246-GR2
Q259	8-729-201-56	TRANSISTOR	2SK246-GR2
Q722	8-729-802-80	TRANSISTOR	2SC3661
Q772	8-729-802-80	TRANSISTOR	2SC3661

< RESISTOR >

R256	1-216-097-00	METAL CHIP	100K	5%	1/10W
R257	1-216-097-00	METAL CHIP	100K	5%	1/10W
R738	1-216-097-00	METAL CHIP	100K	5%	1/10W
R739	1-216-113-00	METAL CHIP	470K	5%	1/10W
R740	1-216-049-00	METAL CHIP	1K	5%	1/10W
R742	1-216-073-00	METAL CHIP	10K	5%	1/10W
R743	1-216-101-00	METAL CHIP	150K	5%	1/10W
R744	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R745	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R747	1-216-049-00	METAL CHIP	1K	5%	1/10W
R781	1-216-039-00	METAL CHIP	390	5%	1/10W
R782	1-216-017-00	METAL CHIP	47	5%	1/10W
R788	1-216-097-00	METAL CHIP	100K	5%	1/10W
R789	1-216-113-00	METAL CHIP	470K	5%	1/10W
R790	1-216-049-00	METAL CHIP	1K	5%	1/10W
R792	1-216-073-00	METAL CHIP	10K	5%	1/10W
R793	1-216-101-00	METAL CHIP	150K	5%	1/10W
R794	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R795	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R797	1-216-049-00	METAL CHIP	1K	5%	1/10W

****

Ref. No.	Part No.	Description			Remark
*	1-648-694-11	DBFB BOARD			
		**********			
		< CAPACITOR >			
C1253	1-124-464-11	ELECT	0.22uF	20%	50V
		< CONNECTOR >			
* CNP14511	-564-523-11	PLUG, CONNECTOR 8P			
* CNP14521	-691-179-11	CONNECTOR (BOARD TO BOARD) 9P			
		< DIODE >			
D1730	8-719-987-63	DIODE	1N4148M		
		< RESISTOR >			
R1750	1-249-441-11	CARBON	100K	5% 1/4W	
**********					
*	A-4360-647-A	DISPLAY BOARD, COMPLETE (GX808ES)			
		**********			
*	A-4360-683-A	DISPLAY BOARD, COMPLETE (GX909ES)			
		**********			
*	4-952-472-01	HOLDER (S), FL TUBE			
*	4-952-473-01	HOLDER (S), LED			
		< CAPACITOR >			
C201	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C202	1-124-638-11	ELECT	22uF	20%	10V
C203	1-136-165-00	FILM	0.1uF	5%	50V
C204	1-124-916-11	ELECT	22uF	20%	63V
C207	1-136-165-00	FILM	0.1uF	5%	50V
C208	1-136-165-00	FILM	0.1uF	5%	50V
C211	1-124-916-11	ELECT	22uF	20%	63V
C212	1-104-905-11	CAP, DOUBLE LAYERS		0.22F	
C213	1-126-154-11	ELECT	47uF	20%	6.3V
C216	1-136-165-00	FILM	0.1uF	5%	50V
C217	1-164-097-11	CERAMIC	0.022uF		50V
C218	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C219	1-164-097-11	CERAMIC	0.022uF		50V
		< FILTER >			
CF201	1-567-928-11	VIBLATOR, CERAMIC (20MHz)			
		< JACK >			
* CNJ202	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P			
		< CONNECTOR >			
* CNS201	1-695-382-21	PIN, CONNECTOR (PC BOARD) 21P			

Ref. No.	Part No.	Description		Remark
		< DIODE >		
D202	8-719-313-72	LED	SEL3810A-CD (D.B.F.B)	
D203	8-719-313-72	LED	SEL3810A-CD (SURR)	
D204	8-719-313-72	LED	SEL3810A-CD (EQ)	
D205	8-719-313-72	LED	SEL3810A-CD (INDEX)	
D206	8-719-016-74	DIODE	1SS352	
D209	8-719-016-74	DIODE	1SS352	
D211	8-719-301-49	LED	SEL2810A (MONITOR TAPE 2)	
D212	8-719-313-72	LED	SEL3810A-CD (MUTING)	
D217	8-719-016-74	DIODE	1SS352	
D218	8-719-016-74	DIODE	1SS352	
D220	8-719-016-74	DIODE	1SS352 (GX909ES)	
D223	8-719-030-50	DIODE	SEL6914W-TP6S (VIDEO 1)	
D224	8-719-030-50	DIODE	SEL6914W-TP6S (VIDEO 2)	
D225	8-719-030-50	DIODE	SEL6914W-TP6S (VIDEO 3)	
D226	8-719-030-50	DIODE	SEL6914W-TP6S (TAPE 1)	
D227	8-719-030-50	DIODE	SEL6914W-TP6S (DAT)	
D228	8-719-030-50	DIODE	SEL6914W-TP6S (CD)	
D229	8-719-030-50	DIODE	SEL6914W-TP6S (TUNER)	
D230	8-719-030-50	DIODE	SEL6914W-TP6S (PHONO)	
D231	8-719-030-50	DIODE	SEL6914W-TP6S (1)	
D232	8-719-030-50	DIODE	SEL6914W-TP6S (2)	
D233	8-719-030-50	DIODE	SEL6914W-TP6S (3)	
D234	8-719-030-50	DIODE	SEL6914W-TP6S (4)	
D235	8-719-030-50	DIODE	SEL6914W-TP6S (5)	
D236	8-719-030-50	DIODE	SEL6914W-TP6S (6)	
D237	8-719-030-50	DIODE	SEL6914W-TP6S (7)	
D238	8-719-030-50	DIODE	SEL6914W-TP6S (8)	
D239	8-719-030-50	DIODE	SEL6914W-TP6S (9)	
D240	8-719-030-50	DIODE	SEL6914W-TP6S (0)	
D241	8-719-030-50	DIODE	SEL6914W-TP6S (DOLBY SUR)	
D242	8-719-030-50	DIODE	SEL6914W-TP6S (THEATER)	
D243	8-719-030-50	DIODE	SEL6914W-TP6S (LIVE)	
D244	8-719-030-50	DIODE	SEL6914W-TP6S (HALL)	
D245	8-719-030-50	DIODE	SEL6914W-TP6S (DANCE)	
D246	8-719-030-50	DIODE	SEL6914W-TP6S (JAZZ)	
D247	8-719-030-50	DIODE	SEL6914W-TP6S (OPERA)	
D248	8-719-030-50	DIODE	SEL6914W-TP6S (CHURCH)	
D249	8-719-030-50	DIODE	SEL6914W-TP6S (STADIUM)	
D250	8-719-030-50	DIODE	SEL6914W-TP6S (ACOUSTIC)	
D251	8-719-016-74	DIODE	1SS352	
D252	8-719-016-74	DIODE	1SS352	
		< FILTER >		
FL201	1-519-724-11	INDICATOR TUBE, FLUORESCENT		
		< IC >		
IC201	8-759-075-35	IC	TD62C950RF	
IC202	8-759-075-35	IC	TD62C950RF	
IC203	8-759-182-69	IC	HD6433258A79F	

DISPLAY

Ref. No.	Part No.	Description				Remark
IC204	8-749-920-83	IC GP1U52XB				
		< COIL >				
L201	1-410-377-31	INDUCTOR CHIP	4.7uH			
		< TRANSISTOR >				
Q201	8-729-207-68	TRANSISTOR	RN2402			
Q202	8-729-805-41	TRANSISTOR	2SC3398			
Q203	8-729-805-43	TRANSISTOR	2SC3396			
Q213	8-729-805-43	TRANSISTOR	2SC3396			
Q223	8-729-805-43	TRANSISTOR	2SC3396			
		< RESISTOR >				
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R202	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R203	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R204	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R205	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
⚠R206	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R207	1-249-381-11	CARBON	1	5%	1/4W	F
R208	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R209	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R210	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R211	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R212	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R213	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R214	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R216	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R217	1-216-001-00	METAL CHIP	10	5%	1/10W	
R218	1-216-037-00	METAL CHIP	330	5%	1/10W	
R219	1-216-037-00	METAL CHIP	330	5%	1/10W	
R220	1-216-037-00	METAL CHIP	330	5%	1/10W	
R221	1-216-037-00	METAL CHIP	330	5%	1/10W	
R222	1-216-037-00	METAL CHIP	330	5%	1/10W	
R223	1-216-037-00	METAL CHIP	330	5%	1/10W	
R224	1-216-037-00	METAL CHIP	330	5%	1/10W	
R225	1-216-037-00	METAL CHIP	330	5%	1/10W	
R226	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R227	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R228	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R229	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R230	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R231	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R232	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R233	1-216-037-00	METAL CHIP	330	5%	1/10W	
R234	1-216-037-00	METAL CHIP	330	5%	1/10W	
R237	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R238	1-216-037-00	METAL CHIP	330	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R239	1-216-037-00	METAL CHIP	330	5%	1/10W	
R240	1-216-025-00	METAL CHIP	100	5%	1/10W	
⚠R241	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R242	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R243	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R245	1-216-001-00	METAL CHIP	10	5%	1/10W	F
⚠R246	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R247	1-249-405-11	CARBON	100	5%	1/4W	F
R248	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R249	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R250	1-216-033-00	METAL CHIP	220	5%	1/10W	
R251	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R252	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R265	1-216-001-00	METAL CHIP	10	5%	1/10W	
		< SWITCH >				
S201	1-554-303-21	SWITCH, TACTILE (DISPLAY GRAPHIC)				
S202	1-554-303-21	SWITCH, TACTILE (DISPLAY INDEX)				
S203	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING-)				
S204	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING+)				
S205	1-554-303-21	SWITCH, TACTILE (PRESET TUNING-)				
S206	1-554-303-21	SWITCH, TACTILE (PRESET TUNING+)				
S207	1-554-303-21	SWITCH, TACTILE (TUNER TUNING LEVEL)				
S208	1-554-303-21	SWITCH, TACTILE (TUNER MEMORY)				
S209	1-554-303-21	SWITCH, TACTILE (TUNER DIRECT TUNING)				
S210	1-554-303-21	SWITCH, TACTILE (TUNER FM MODE)				
S211	1-554-303-21	SWITCH, TACTILE (TUNER AM/FM)				
S212	1-554-303-21	SWITCH, TACTILE (SOUND FILD LINK)				
S213	1-554-303-21	SWITCH, TACTILE (SOUND FILD ON/OFF)				
S214	1-554-303-21	SWITCH, TACTILE (SOUND FILD USER/PREST)				
S215	1-554-303-21	SWITCH, TACTILE (PROLOGIC MODE)				
S216	1-554-303-21	SWITCH, TACTILE (EQUALIZER FLAT)				
S217	1-554-303-21	SWITCH, TACTILE (EQUALIZER SLOPE)				
S218	1-554-303-21	SWITCH, TACTILE (EQUALIZER BAND)				
S219	1-554-303-21	SWITCH, TACTILE (ONSCREEN) (GX909ES)				
S220	1-554-303-21	SWITCH, TACTILE (TITLE) (GX909ES)				
S221	1-554-303-21	SWITCH, TACTILE (TITLE AUDIO) (GX909ES)				
S222	1-554-303-21	SWITCH, TACTILE (EDIT VIDEO)				
S223	1-554-303-21	SWITCH, TACTILE (EDIT AUDIO)				
S224	1-554-303-21	SWITCH, TACTILE (MONITOR TAPE 2)				
S225	1-554-303-21	SWITCH, TACTILE (SHIFT)				
S226	1-554-303-21	SWITCH, TACTILE (1 DOLBY SUR)				
S227	1-554-303-21	SWITCH, TACTILE (2 THEATER)				
S228	1-554-303-21	SWITCH, TACTILE (3 VIDEO 1 LIVE)				
S229	1-554-303-21	SWITCH, TACTILE (CURSOR MODE)				
S230	1-554-303-21	SWITCH, TACTILE (D.B.F.B)				
S231	1-554-303-21	SWITCH, TACTILE (MUTING -20dB)				
S232	1-554-303-21	SWITCH, TACTILE (4 VIDEO 2 HALL)				
S233	1-554-303-21	SWITCH, TACTILE (5 VIDEO 3 DANCE)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
S234	1-554-303-21	SWITCH, TACTILE (6 TAPE 1 JAZZ)			
S235	1-554-303-21	SWITCH, TACTILE (MODE SELECT)			
S236	1-554-303-21	SWITCH, TACTILE (▽)			
S237	1-554-303-21	SWITCH, TACTILE (△)			
S238	1-554-303-21	SWITCH, TACTILE (7 DAT OPERA)			
S239	1-554-303-21	SWITCH, TACTILE (8 CD CHURCH)			
S240	1-554-303-21	SWITCH, TACTILE (9 TUNER STADIUM)			
S241	1-554-303-21	SWITCH, TACTILE (0 PHONO ACOUSTIC)			
S242	1-554-303-21	SWITCH, TACTILE (◁)			
S243	1-554-303-21	SWITCH, TACTILE (▷)			
**********					
*	1-647-969-11	FRONT VIDEO BOARD			
		**********			
		< CONNECTOR >			
* CNS153	1-565-482-11	CONNECTOR, BOARD TO BOARD 6P			
		< JACK >			
* J131	1-580-174-11	JACK, PIN (3P FRONT)(VIDEO 3 INPUT)			
		< RESISTOR >			
R129	1-247-804-11	CARBON	75	5% 1/4W	
**********					
*	A-4360-646-A	MAIN BOARD, COMPLETE (GX808ES:US)			
		**********			
*	A-4360-648-A	MAIN BOARD, COMPLETE (GX808ES:Canadian)			
		**********			
*	A-4360-672-A	MAIN BOARD, COMPLETE (GX909ES:US)			
		**********			
*	A-4360-684-A	MAIN BOARD, COMPLETE (GX909ES:Canadian)			
		**********			
*	4-904-446-01	PLATE, GROUND			
*	4-942-204-01	PLATE, GROUND			
*	4-880-403-11	HEAT SINK			
*	3-309-144-21	HEAT SINK			
*	4-931-903-01	HEAT SINK (DI)			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C251	1-124-925-11	ELECT	2.2uF	20%	100V
C252	1-164-159-11	CERAMIC	0.1uF		50V
C254	1-164-159-11	CERAMIC	0.1uF		50V
C255	1-164-159-11	CERAMIC	0.1uF		50V
C257	1-162-294-31	CERAMIC	0.001uF	10%	50V
C501	1-162-282-31	CERAMIC	100PF	10%	50V
C502	1-124-927-11	ELECT	4.7uF	20%	100V
C503	1-124-477-11	ELECT	47uF	20%	25V
C504	1-130-480-00	MYLAR	0.0056uF	5%	50V
C505	1-106-347-00	MYLAR	1500PF	5%	200V
C506	1-124-927-11	ELECT	4.7uF	20%	100V
C507	1-124-916-11	ELECT	22uF	20%	63V
C513	1-162-294-31	CERAMIC	0.001uF	10%	50V
C515	1-162-294-31	CERAMIC	0.001uF	10%	50V
C516	1-162-294-31	CERAMIC	0.001uF	10%	50V
C517	1-124-907-11	ELECT	10uF	20%	50V
C518	1-124-907-11	ELECT	10uF	20%	50V
C526	1-164-159-11	CERAMIC	0.1uF		50V
C551	1-162-282-31	CERAMIC	100PF	10%	50V
C552	1-124-927-11	ELECT	4.7uF	20%	100V
C553	1-124-477-11	ELECT	47uF	20%	25V
C554	1-130-480-00	MYLAR	0.0056uF	5%	50V
C555	1-106-347-00	MYLAR	1500PF	5%	200V
C556	1-124-927-11	ELECT	4.7uF	20%	100V
C557	1-124-916-11	ELECT	22uF	20%	63V
C590	1-124-927-11	ELECT	4.7uF	20%	100V
C651	1-124-907-11	ELECT	10uF	20%	50V
C652	1-164-083-11	CERAMIC	680PF	10%	50V
C653	1-124-477-11	ELECT	47uF	20%	25V
C654	1-161-959-00	CERAMIC	22PF	10%	500V
C655	1-124-477-11	ELECT	47uF	20%	25V
C656	1-164-014-11	CERAMIC	5PF	0.25PF	50V
C657	1-161-959-00	CERAMIC	22PF	10%	500V
C658	1-126-022-11	ELECT	47uF	20%	10V
C659	1-136-157-00	FILM	0.022uF	5%	50V
			(GX808ES/GX909ES:US)		
C659	1-136-161-00	FILM	0.047uF	5%	50V
			(GX808ES/GX909ES:Canadian)		
C660	1-136-161-00	FILM	0.047uF	5%	50V
			(GX808ES/GX909ES:Canadian)		
C661	1-136-165-00	FILM	0.1uF	5%	50V
C663	1-164-077-11	CERAMIC	220PF	10%	50V
C680	1-124-931-11	ELECT	47uF	20%	100V
C707	1-124-477-11	ELECT	47uF	20%	25V
C708	1-102-233-00	CERAMIC	33PF	10%	500V
C709	1-102-233-00	CERAMIC	33PF	10%	500V
C710	1-136-165-00	FILM	0.1uF	5%	50V
C711	1-136-165-00	FILM	0.1uF	5%	50V
C712	1-136-157-00	FILM	0.022uF	5%	50V
			(GX808ES/GX909ES:US)		
C712	1-136-161-00	FILM	0.047uF	5%	50V
			(GX808ES/GX909ES:Canadian)		
C713	1-136-161-00	FILM	0.047uF	5%	50V
			(GX808ES/GX909ES:Canadian)		
C714	1-124-925-11	ELECT	2.2uF	20%	100V
C715	1-124-472-11	ELECT	470uF	20%	10V
C757	1-124-477-11	ELECT	47uF	20%	25V
C758	1-102-233-00	CERAMIC	33PF	10%	500V

MAIN

Ref. No.	Part No.	Description			Remark
C759	1-102-233-00	CERAMIC	33PF	10%	500V
C760	1-136-165-00	FILM	0.1uF	5%	50V
C761	1-136-165-00	FILM	0.1uF	5%	50V
C762	1-136-157-00	FILM	0.022uF	5%	50V
			(GX808ES/GX909ES:US)		
C762	1-136-161-00	FILM	0.047uF	5%	50V
			(GX808ES/GX909ES:Canadian)		
C763	1-136-161-00	FILM	0.047uF	5%	50V
			(GX808ES/GX909ES:Canadian)		
C962	1-124-907-11	ELECT	10uF	20%	50V
C963	1-126-955-11	ELECT	4700uF	20%	35V
C964	1-124-910-11	ELECT	47uF	20%	50V
C965	1-126-955-11	ELECT	4700uF	20%	35V
C966	1-124-477-11	ELECT	47uF	20%	25V
C967	1-124-477-11	ELECT	47uF	20%	25V
C968	1-126-017-11	ELECT	6800uF	20%	16V
C969	1-124-477-11	ELECT	47uF	20%	25V
C971	1-124-667-11	ELECT	10uF	20%	100V
C980	1-106-391-12	MYLAR	0.1uF	5%	200V
C981	1-106-391-12	MYLAR	0.1uF	5%	200V
C982	1-104-819-11	ELECT	15000uF	99%	63V
C983	1-104-819-11	ELECT	15000uF	99%	63V
C984	1-128-573-11	ELECT	470uF	20%	71V
C985	1-128-573-11	ELECT	470uF	20%	71V
C991	1-164-096-11	CERAMIC	0.01uF		50V
C992	1-164-096-11	CERAMIC	0.01uF		50V
C993	1-164-096-11	CERAMIC	0.01uF		50V
C994	1-164-096-11	CERAMIC	0.01uF		50V
		< FILTER >			
CF251	1-567-928-11	VIBLATOR, CERAMIC (10MHz)			
		< CONNECTOR >			
* CNP153	1-560-330-00	CONNECTOR PIN (L)			
CNP154	1-691-170-11	PIN, CONNECTOR 13P			
CNP251	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
* CNP253	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP551	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP554	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP559	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP651	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP652	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P			
* CNP653	1-564-509-11	PLUG, CONNECTOR 6P			
* CNP654	1-564-507-11	PLUG, CONNECTOR 4P			
CNP751	1-691-163-11	PIN, CONNECTOR 6P			
CNP752	1-691-162-11	PIN, CONNECTOR 5P			
CNP753	1-691-165-11	PIN, CONNECTOR 8P			
* CNP754	1-564-242-00	PIN, CONNECTOR 5P			
CNP951	1-564-104-00	PIN, CONNECTOR 3P			
CNP953	1-564-242-00	PIN, CONNECTOR 5P			
* CNP955	1-564-506-11	PLUG, CONNECTOR 3P (GX909ES)			
		< CONNECTOR >			
* CNS151	1-568-826-11	SOCKET, CONNECTOR 7P (GX909ES)			
CNS252	1-568-838-11	SOCKET, CONNECTOR 21P			
* CNS253	1-568-824-11	SOCKET, CONNECTOR 5P			
CNS351	1-695-218-11	SOCKET, CONNECTOR 33P			
		< DIODE >			
D252	8-719-987-63	DIODE	1N4148M		
D253	8-719-987-63	DIODE	1N4148M (GX909ES)		
D501	8-719-987-63	DIODE	1N4148M		
D610	8-719-987-63	DIODE	1N4148M		
D623	8-719-987-63	DIODE	1N4148M		
D651	8-719-933-35	DIODE	HZS6A3L		
D652	8-719-987-63	DIODE	1N4148M		
D654	8-719-815-85	DIODE	1S1585		
D705	8-719-987-63	DIODE	1N4148M		
D715	8-719-815-85	DIODE	1S1585		
D716	8-719-815-85	DIODE	1S1585		
D718	8-719-987-63	DIODE	1N4148M		
D720	8-719-987-63	DIODE	1N4148M		
D723	8-719-987-63	DIODE	1N4148M		
D731	8-719-987-63	DIODE	1N4148M		
D765	8-719-815-85	DIODE	1S1585		
D766	8-719-815-85	DIODE	1S1585		
D780	8-719-200-02	DIODE	10E2		
D781	8-719-200-02	DIODE	10E2		
D963	8-719-002-70	DIODE	UZL-36L		
D970	8-719-312-09	DIODE	RBA-402		
D971	8-719-312-09	DIODE	RBA-402		
D973	8-719-987-63	DIODE	1N4148M		
D980	8-719-302-38	DIODE	RBV-602-01		
		< IC >			
IC150	8-759-177-83	IC	HD6433258-A74F		
IC231	8-759-820-62	IC	LB1639		
IC501	8-759-111-44	IC	uPC4570C-1		
IC510	8-759-805-14	IC	LC7822		
IC511	8-759-805-14	IC	LC7822		
IC514	8-759-801-01	IC	LC4966		
IC951	8-759-604-40	IC	M5F78M15L		
IC952	8-759-604-46	IC	M5F79M15L		
IC953	8-759-231-53	IC	TA7805S		

Ref.No.	Part No.	Description	Remark
		< JACK >	
J501	1-691-260-11	JACK, PIN 6P (PHONO IN/CD IN/DAT (REC OUT))	
J502	1-691-260-11	JACK, PIN 6P (DAT (IN)/TAPE 1 (REC OUT/IN))	
J503	1-691-260-11	JACK, PIN 6P (VIDEO 2 AUDIO IN/VIDEO 1 (OUT/IN))	
J504	1-573-520-11	JACK, PIN 4P (TAPE 2 (REC OUT/IN))	
		< COIL >	
L602	1-420-872-00	COIL, AIR CORE	
L701	1-420-872-00	COIL, AIR CORE	
L751	1-420-872-00	COIL, AIR CORE	
		< TRANSISTOR >	
Q250	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q257	8-729-900-63	TRANSISTOR DTA124ES	
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q502	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q503	8-729-900-61	TRANSISTOR DTA114ES	
Q507	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q508	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q509	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q510	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q511	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q512	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q520	8-729-900-80	TRANSISTOR DTC114ES	
Q521	8-729-900-61	TRANSISTOR DTA114ES	
Q522	8-729-900-80	TRANSISTOR DTC114ES	
Q523	8-729-900-61	TRANSISTOR DTA114ES	
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q644	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q651	8-729-620-18	TRANSISTOR 2SA979-FG	
Q652	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q653	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q655	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q656	8-729-141-06	TRANSISTOR 2SA1142-QPE	
Q657	8-729-209-15	TRANSISTOR 2SD2012	
Q658	8-729-141-05	TRANSISTOR 2SC2682-QPE	
Q662	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q663	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q664	8-729-021-05	TRANSISTOR 2SA1553-RO	
Q665	8-729-021-06	TRANSISTOR 2SC4029-RO	
Q667	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
Q704	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q705	8-729-021-06	TRANSISTOR 2SC4029-RO	
Q708	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q709	8-729-021-05	TRANSISTOR 2SA1553-RO	
Q711	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q712	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q713	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q714	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q715	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q716	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q752	8-729-209-15	TRANSISTOR 2SD2012	
Q754	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q755	8-729-021-06	TRANSISTOR 2SC4029-RO	
Q758	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q759	8-729-021-05	TRANSISTOR 2SA1553-RO	
Q767	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q768	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q961	8-729-209-15	TRANSISTOR 2SD2012	
		< RESISTOR >	
R114	1-249-417-11	CARBON 1K 5% 1/4W	
R116	1-249-417-11	CARBON 1K 5% 1/4W	
R138	1-249-417-11	CARBON 1K 5% 1/4W	
R141	1-249-417-11	CARBON 1K 5% 1/4W	
R191	1-249-417-11	CARBON 1K 5% 1/4W	
R251	1-249-422-11	CARBON 2.7K 5% 1/4W	
R252	1-249-441-11	CARBON 100K 5% 1/4W	
R253	1-249-425-11	CARBON 4.7K 5% 1/4W	
R254	1-249-417-11	CARBON 1K 5% 1/4W	
R258	1-249-437-11	CARBON 47K 5% 1/4W	
R266	1-249-429-11	CARBON 10K 5% 1/4W	
R267	1-249-429-11	CARBON 10K 5% 1/4W	
R268	1-249-429-11	CARBON 10K 5% 1/4W	
R269	1-249-413-11	CARBON 470 5% 1/4W	
R272	1-249-429-11	CARBON 10K 5% 1/4W	(GX909ES)
R273	1-249-437-11	CARBON 47K 5% 1/4W	
R274	1-249-429-11	CARBON 10K 5% 1/4W	
R275	1-249-429-11	CARBON 10K 5% 1/4W	(GX909ES)
R278	1-249-437-11	CARBON 47K 5% 1/4W	
R501	1-249-411-11	CARBON 330 5% 1/4W	
R502	1-249-441-11	CARBON 100K 5% 1/4W	
R503	1-249-441-11	CARBON 100K 5% 1/4W	
R504	1-249-416-11	CARBON 820 5% 1/4W	
R505	1-247-897-11	CARBON 560K 5% 1/4W	
R506	1-249-437-11	CARBON 47K 5% 1/4W	
R507	1-247-903-00	CARBON 1M 5% 1/4W	
R508	1-249-409-11	CARBON 220 5% 1/4W	
R509	1-249-409-11	CARBON 220 5% 1/4W	
R510	1-249-438-11	CARBON 56K 5% 1/4W	
R511	1-249-417-11	CARBON 1K 5% 1/4W	
R513	1-249-417-11	CARBON 1K 5% 1/4W	
R514	1-249-417-11	CARBON 1K 5% 1/4W	
R515	1-249-417-11	CARBON 1K 5% 1/4W	

MAIN

Ref. No.	Part No.	Description				Remark
R517	1-249-417-11	CARBON	1K	5%	1/4W	
R518	1-249-417-11	CARBON	1K	5%	1/4W	
R520	1-249-441-11	CARBON	100K	5%	1/4W	
R521	1-249-417-11	CARBON	1K	5%	1/4W	
R522	1-249-429-11	CARBON	10K	5%	1/4W	
R523	1-249-426-11	CARBON	5.6K	5%	1/4W	
R524	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R526	1-249-407-11	CARBON	150	5%	1/4W	F
R531	1-249-425-11	CARBON	4.7K	5%	1/4W	
R533	1-249-425-11	CARBON	4.7K	5%	1/4W	
R539	1-249-433-11	CARBON	22K	5%	1/4W	
R540	1-249-413-11	CARBON	470	5%	1/4W	
R541	1-249-413-11	CARBON	470	5%	1/4W	
R542	1-249-413-11	CARBON	470	5%	1/4W	
R543	1-249-413-11	CARBON	470	5%	1/4W	
R544	1-249-413-11	CARBON	470	5%	1/4W	
R545	1-249-413-11	CARBON	470	5%	1/4W	
R547	1-249-417-11	CARBON	1K	5%	1/4W	
R548	1-249-417-11	CARBON	1K	5%	1/4W	
R551	1-249-411-11	CARBON	330	5%	1/4W	
R552	1-249-441-11	CARBON	100K	5%	1/4W	
R553	1-249-441-11	CARBON	100K	5%	1/4W	
R554	1-249-416-11	CARBON	820	5%	1/4W	
R555	1-247-897-11	CARBON	560K	5%	1/4W	
R556	1-249-437-11	CARBON	47K	5%	1/4W	
R557	1-247-903-00	CARBON	1M	5%	1/4W	
R558	1-249-409-11	CARBON	220	5%	1/4W	
R559	1-249-409-11	CARBON	220	5%	1/4W	
R560	1-249-438-11	CARBON	56K	5%	1/4W	
R561	1-249-417-11	CARBON	1K	5%	1/4W	
R563	1-249-417-11	CARBON	1K	5%	1/4W	
R564	1-249-417-11	CARBON	1K	5%	1/4W	
R565	1-249-417-11	CARBON	1K	5%	1/4W	
R567	1-249-417-11	CARBON	1K	5%	1/4W	
R568	1-249-417-11	CARBON	1K	5%	1/4W	
R571	1-249-417-11	CARBON	1K	5%	1/4W	
R574	1-249-441-11	CARBON	100K	5%	1/4W	
R589	1-249-433-11	CARBON	22K	5%	1/4W	
R590	1-249-426-11	CARBON	5.6K	5%	1/4W	
R591	1-249-441-11	CARBON	100K	5%	1/4W	
R592	1-249-433-11	CARBON	22K	5%	1/4W	
R593	1-249-426-11	CARBON	5.6K	5%	1/4W	
R594	1-249-426-11	CARBON	5.6K	5%	1/4W	
R595	1-249-426-11	CARBON	5.6K	5%	1/4W	
R596	1-249-426-11	CARBON	5.6K	5%	1/4W	
R597	1-249-417-11	CARBON	1K	5%	1/4W	
R598	1-249-417-11	CARBON	1K	5%	1/4W	
R599	1-249-426-11	CARBON	5.6K	5%	1/4W	
R635	1-260-072-11	CARBON	4.7	5%	1/2W	

Ref. No.	Part No.	Description				Remark
R644	1-249-429-11	CARBON	10K	5%	1/4W	
R650	1-249-434-11	CARBON	27K	5%	1/4W	
R651	1-249-417-11	CARBON	1K	5%	1/4W	
R652	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R653	1-249-409-11	CARBON	220	5%	1/4W	
⚠R654	1-249-409-11	CARBON	220	5%	1/4W	
R655	1-249-415-11	CARBON	680	5%	1/4W	
R656	1-249-421-11	CARBON	2.2K	5%	1/4W	
R657	1-249-425-11	CARBON	4.7K	5%	1/4W	
R658	1-249-435-11	CARBON	33K	5%	1/4W	
R659	1-249-426-11	CARBON	5.6K	5%	1/4W	
R662	1-249-411-11	CARBON	330	5%	1/4W	
R663	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R664	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R665	1-249-405-11	CARBON	100	5%	1/4W	F
R666	1-249-419-11	CARBON	1.5K	5%	1/4W	
R667	1-249-437-11	CARBON	47K	5%	1/4W	
R668	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R669	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R670	1-249-405-11	CARBON	100	5%	1/4W	F
R671	1-249-431-11	CARBON	15K	5%	1/4W	
R672	1-260-076-11	CARBON	10	5%	1/2W	
⚠R675	1-249-389-11	CARBON	4.7	5%	1/4W	F
⚠R676	1-249-411-11	CARBON	330	5%	1/4W	
⚠R677	1-249-389-11	CARBON	4.7	5%	1/4W	F
⚠R678	1-217-611-00	RES, METAL PLATE			0.1	F
⚠R679	1-217-611-00	RES, METAL PLATE			0.1	F
⚠R680	1-249-397-11	CARBON	22	5%	1/4W	F
R681	1-249-419-11	CARBON	1.5K	5%	1/4W	
R683	1-249-431-11	CARBON	15K	5%	1/4W	
R692	1-249-435-11	CARBON	33K	5%	1/4W	
R702	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R707	1-249-405-11	CARBON	100	5%	1/4W	F
R708	1-249-419-11	CARBON	1.5K	5%	1/4W	
R709	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R710	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R711	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R712	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R713	1-217-611-00	RES, METAL PLATE			0.1	F
⚠R714	1-217-611-00	RES, METAL PLATE			0.1	F
⚠R715	1-249-393-11	CARBON	10	5%	1/4W	F
R725	1-249-419-11	CARBON	1.5K	5%	1/4W	
R726	1-249-417-11	CARBON	1K	5%	1/4W	
R727	1-249-431-11	CARBON	15K	5%	1/4W	
R728	1-249-431-11	CARBON	15K	5%	1/4W	
R729	1-260-072-11	CARBON	4.7	5%	1/2W	
R730	1-260-076-11	CARBON	10	5%	1/2W	
R731	1-249-429-11	CARBON	10K	5%	1/4W	
R732	1-249-436-11	CARBON	39K	5%	1/4W	

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Ref. No.	Part No.	Description				Remark
R733	1-249-437-11	CARBON	47K	5%	1/4W	
R734	1-249-417-11	CARBON	1K	5%	1/4W	
R735	1-249-434-11	CARBON	27K	5%	1/4W	
⚠R737	1-249-401-11	CARBON	47	5%	1/4W	F
⚠R757	1-249-405-11	CARBON	100	5%	1/4W	F
R758	1-249-419-11	CARBON	1.5K	5%	1/4W	
R759	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R760	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R761	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R762	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R763	1-217-611-00	RES, METAL PLATE			0.1	F
⚠R764	1-217-611-00	RES, METAL PLATE			0.1	F
R765	1-249-393-11	CARBON	10	5%	1/4W	
R775	1-249-419-11	CARBON	1.5K	5%	1/4W	
R776	1-249-417-11	CARBON	1K	5%	1/4W	
R777	1-249-431-11	CARBON	15K	5%	1/4W	
R778	1-249-431-11	CARBON	15K	5%	1/4W	
R779	1-260-072-11	CARBON	4.7	5%	1/2W	
R780	1-260-076-11	CARBON	10	5%	1/2W	
⚠R783	1-247-743-11	CARBON	220	5%	1/2W	F
R785	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R787	1-249-401-11	CARBON	47	5%	1/4W	F
R966	1-249-381-11	CARBON	1	5%	1/4W	
R967	1-249-385-11	CARBON	2.2	5%	1/6W	
R970	1-249-426-11	CARBON	5.6K	5%	1/4W	
⚠R971	1-215-905-11	METAL OXIDE	10	5%	3W	F
⚠R973	1-249-397-11	CARBON	22	5%	1/4W	F
R1708	1-249-414-11	CARBON	560	5%	1/4W	
R1709	1-249-431-11	CARBON	15K	5%	1/4W	
R1758	1-249-414-11	CARBON	560	5%	1/4W	
R1759	1-249-431-11	CARBON	15K	5%	1/4W	
		< RELAY >				
RY501	1-515-614-11	RELAY				
RY602	1-515-676-11	RELAY				
RY701	1-515-741-21	RELAY				
		< TEST PIN >				
* TP701	1-560-062-00	PIN, CONNECTOR 4P				
* TP702	1-560-060-00	PIN, CONNECTOR 2P				
**********						
*	A-4365-078-A	ON SCREEN BOARD, COMPLETE (GX909ES)				
		**********				
		< CAPACITOR >				
C119	1-124-907-11	ELECT	10uF	20%	50V	
C120	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C121	1-124-907-11	ELECT	10uF	20%	50V	

Ref. No.	Part No.	Description			Remark
C122	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C123	1-126-096-11	ELECT	10uF	20%	35V
C124	1-136-162-00	FILM	0.056uF	5%	50V
C125	1-136-153-00	FILM	0.01uF	5%	50V
C126	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C127	1-124-907-11	ELECT	10uF	20%	50V
C128	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C129	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C130	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C131	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C132	1-124-907-11	ELECT	10uF	20%	50V
C133	1-124-903-11	ELECT	1uF	20%	50V
C134	1-124-903-11	ELECT	1uF	20%	50V
C135	1-124-903-11	ELECT	1uF	20%	50V
C136	1-124-903-11	ELECT	1uF	20%	50V
C137	1-136-161-00	FILM	0.047uF	5%	50V
C138	1-124-903-11	ELECT	1uF	20%	50V
C140	1-126-096-11	ELECT	10uF	20%	35V
C141	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C146	1-163-204-00	CERAMIC CHIP	910PF	5%	50V
C147	1-124-477-11	ELECT	47uF	20%	25V
C148	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C150	1-124-903-11	ELECT	1uF	20%	50V
C151	1-130-475-00	MYLAR	0.0022uF	5%	50V
C152	1-130-475-00	MYLAR	0.0022uF	5%	50V
C153	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C154	1-124-477-11	ELECT	47uF	20%	25V
C155	1-130-475-00	MYLAR	0.0022uF	5%	50V
C158	1-130-477-00	MYLAR	0.0033uF	5%	50V
C159	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C161	1-130-473-00	MYLAR	0.0015uF	5%	50V
C163	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C164	1-124-477-11	ELECT	47uF	20%	25V
C165	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C167	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C168	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C169	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C170	1-124-477-11	ELECT	47uF	20%	25V
C171	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C172	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C173	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C174	1-124-477-11	ELECT	47uF	20%	25V
C175	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C181	1-136-165-00	FILM	0.1uF	5%	50V
C182	1-124-925-11	ELECT	2.2uF	20%	100V
C183	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C184	1-136-154-00	FILM	0.012uF	5%	50V
C185	1-130-476-00	MYLAR	0.0027uF	5%	50V
C186	1-123-382-00	ELECT	3.3uF	20%	100V

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ON SCREEN

Ref.No.	Part No.	Description			Remark
C187	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C188	1-124-477-11	ELECT	47uF	20%	25V
C197	1-124-477-11	ELECT	47uF	20%	25V
C198	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C199	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< JACK >			
* CNJ105	1-568-824-11	SOCKET, CONNECTOR 5P			
* CNJ106	1-568-826-11	SOCKET, CONNECTOR 7P			
		< TRIMMER >			
CT101	1-141-227-00	CAP, TRIMMER	20PF		
		< IC >			
IC105	8-759-931-47	IC	SN74LS628NS		
IC106	8-759-636-55	IC	M5218AFP		
IC107	8-759-250-81	IC	TC5081AP		
IC108	8-759-927-29	IC	SN74HCU04ANS		
IC110	8-759-914-57	IC	BA7230LS		
IC111	8-759-996-03	IC	LVA519S		
IC113	8-759-902-88	IC	SN74LS123NS		
IC114	8-759-907-81	IC	SN74LS221NS		
IC115	8-759-925-85	IC	SN74HC32ANS		
IC117	8-759-922-51	IC	V9938		
IC118	8-759-973-04	IC	MSM41464-10RS-K		
IC119	8-759-973-04	IC	MSM41464-10RS-K		
IC120	8-759-926-80	IC	SN74HC573BNS		
IC121	8-759-926-77	IC	SN74HC541ANS		
IC122	8-759-177-85	IC	HD64352-SOX4051		
IC123	8-759-927-46	IC	SN74HC00ANS		
IC124	8-759-927-46	IC	SN74HC00ANS		
IC125	8-759-048-99	IC	HD6435208F		
IC126	8-759-925-82	IC	SN74HC21ANS		
IC127	8-759-925-76	IC	SN74HC08ANS		
IC128	8-759-824-06	IC	LC3664RML-12		
IC129	8-759-925-78	IC	SN74HC10ANS		
IC130	8-759-925-76	IC	SN74HC08ANS		
IC171	8-759-902-88	IC	SN74LS123NS		
		< JUMPER RESISTOR >			
JW101	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L101	1-410-470-11	INDUCTOR	10uH		
L102	1-410-470-11	INDUCTOR	10uH		
L103	1-410-470-11	INDUCTOR	10uH		
L104	1-410-478-11	INDUCTOR	47uH		

Ref.No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q112	8-729-216-22	TRANSISTOR	2SA1162-G		
Q113	8-729-216-22	TRANSISTOR	2SA1162-G		
Q114	8-729-216-22	TRANSISTOR	2SA1162-G		
Q115	8-729-207-56	TRANSISTOR	RN1402		
Q116	8-729-216-22	TRANSISTOR	2SA1162-G		
Q117	8-729-207-56	TRANSISTOR	RN1402		
Q119	8-729-113-72	TRANSISTOR	FN1A4M-M33		
Q120	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< RESISTOR >			
R120	1-216-105-00	METAL CHIP	220K	5%	1/10W
R130	1-216-049-00	METAL CHIP	1K	5%	1/10W
R131	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R132	1-216-097-00	METAL CHIP	100K	5%	1/10W
R133	1-216-045-00	METAL CHIP	680	5%	1/10W
R134	1-216-097-00	METAL CHIP	100K	5%	1/10W
R135	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W
R137	1-216-073-00	METAL CHIP	10K	5%	1/10W
R138	1-216-073-00	METAL CHIP	10K	5%	1/10W
R140	1-216-039-00	METAL CHIP	390	5%	1/10W
R144	1-216-085-00	METAL CHIP	33K	5%	1/10W
R145	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R146	1-216-043-00	METAL CHIP	560	5%	1/10W
R147	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R150	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R151	1-216-041-00	METAL CHIP	470	5%	1/10W
R152	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R153	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R154	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R155	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R156	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R157	1-216-105-00	METAL CHIP	220K	5%	1/10W
R158	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R160	1-216-083-00	METAL CHIP	27K	5%	1/10W
R161	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R162	1-216-073-00	METAL CHIP	10K	5%	1/10W
R163	1-216-073-00	METAL CHIP	10K	5%	1/10W
R164	1-216-097-00	METAL CHIP	100K	5%	1/10W
R165	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R166	1-216-049-00	METAL CHIP	1K	5%	1/10W
R167	1-216-049-00	METAL CHIP	1K	5%	1/10W
R168	1-216-041-00	METAL CHIP	470	5%	1/10W
R169	1-216-085-00	METAL CHIP	33K	5%	1/10W
R171	1-216-073-00	METAL CHIP	10K	5%	1/10W
R173	1-216-073-00	METAL CHIP	10K	5%	1/10W
R177	1-216-689-11	METAL CHIP	39K	0.5%	1/10W

Ref. No.	Part No.	Description				Remark
R178	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R179	1-216-060-00	METAL GLAZE	3K	5%	1/10W	
R180	1-216-041-00	METAL CHIP	470	5%	1/10W	
R181	1-216-041-00	METAL CHIP	470	5%	1/10W	
R182	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R183	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	
R184	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R185	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R186	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R187	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R188	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R189	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R1002	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R1003	1-216-073-00	METAL CHIP	10K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV103	1-241-761-11	RES, ADJ, CERMET 1K				
RV104	1-238-600-11	RES, ADJ, CARBON 10K				
RV105	1-238-597-11	RES, ADJ, CARBON 1K				
RV106	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV107	1-241-762-11	RES, ADJ, CERMET 2.2K				
RV108	1-241-762-11	RES, ADJ, CERMET 2.2K				
		< THERMISTOR(POSITIVE) >				
THP101	1-806-366-11	THERMISTOR (POSITIVE)				
		< TEST PIN >				
* TP101	1-560-060-00	PIN, CONNECTOR 2P				
* TP102	1-560-060-00	PIN, CONNECTOR 2P				
		< CRYSTAL >				
X102	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)				
X103	1-577-121-11	VIBRATOR, CRYSTAL (20MHz)				
**********						
*	A-4360-663-A	POWER SUPPLY BOARD, COMPLETE				
		**********				
*	1-533-293-11	FUSE HOLDER				
*	3-309-144-21	HEAT SINK				
*	4-959-363-01	PLATE (V.D), GROUND				
	7-682-547-09	SCREW +BVTT 3X6 (S)				
		< BASE POST >				
* BP901	1-535-139-00	BASE POST 19MM (10MM PITCH) 2P				
		< CAPACITOR >				
⚠C901	1-161-744-00	CERAMIC	0.01uF			400V
C951	1-101-004-00	CERAMIC	0.01uF			50V
C952	1-101-004-00	CERAMIC	0.01uF			50V
C953	1-164-073-11	CERAMIC	100PF	10%		50V
C954	1-124-907-11	ELECT	10uF	20%		50V
C955	1-124-477-11	ELECT	47uF	20%		25V
C956	1-124-464-11	ELECT	0.22uF	20%		50V
C957	1-124-902-00	ELECT	0.47uF	20%		50V
C958	1-101-004-00	CERAMIC	0.01uF			50V
C959	1-124-557-11	ELECT	1000uF	20%		25V
C960	1-124-903-11	ELECT	1uF	20%		50V
		< CONNECTOR >				
⚠* CNP901	1-564-321-00	PIN, CONNECTOR 2P				
CNP902	1-564-321-00	PIN, CONNECTOR 2P				
		< CONNECTOR >				
CNS901	1-540-060-11	OUTLET, AC (POLAR)				
CNS951	1-691-767-11	PLUG (MICRO CONNECTOR) 5P				
		< DIODE >				
D951	8-719-987-63	DIODE	1N4148M			
D952	8-719-987-63	DIODE	1N4148M			
D953	8-719-987-63	DIODE	1N4148M			
D954	8-719-200-02	DIODE	10E2			
D955	8-719-200-02	DIODE	10E2			
D956	8-719-200-02	DIODE	10E2			
D957	8-719-200-02	DIODE	10E2			
D958	8-719-933-41	DIODE	HZS6C3L			
D959	8-719-985-53	DIODE	HZS4ALL			
D960	8-719-987-63	DIODE	1N4148M			
D961	8-719-933-41	DIODE	HZS6C3L			
		< FUSE >				
⚠F902	1-532-749-11	FUSE, GLASS TUBE (8A/125V)				
		< TRANSISTOR >				
Q952	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q953	8-729-209-15	TRANSISTOR	2SD2012			
Q954	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q955	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q956	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q957	8-729-900-63	TRANSISTOR	DTA124ES			
Q958	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q959	8-729-900-89	TRANSISTOR	DTC144ES			
		< RESISTOR >				
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W	
⚠R951	1-247-691-11	CARBON	18	5%	1/4W	F
R952	1-249-417-11	CARBON	1K	5%	1/4W	

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POWER SUPPLY | REAR AMPLIFIER | SP SW

Ref.No.	Part No.	Description				Remark
R954	1-249-433-11	CARBON	22K	5%	1/4W	
R955	1-249-437-11	CARBON	47K	5%	1/4W	
R956	1-249-425-11	CARBON	4.7K	5%	1/4W	
R957	1-249-429-11	CARBON	10K	5%	1/4W	
R958	1-249-417-11	CARBON	1K	5%	1/4W	
R959	1-249-429-11	CARBON	10K	5%	1/4W	
R960	1-249-429-11	CARBON	10K	5%	1/4W	
R962	1-249-426-11	CARBON	5.6K	5%	1/4W	
R963	1-249-417-11	CARBON	1K	5%	1/4W	
R964	1-249-426-11	CARBON	5.6K	5%	1/4W	
R965	1-247-895-00	CARBON	470K	5%	1/4W	
		< RELAY >				
⚠RY901	1-515-701-11	RELAY				
		< TRANSFORMER >				
⚠T901	1-448-517-21	TRANSFORMER, POWER (US)				
⚠T901	1-448-517-31	TRANSFORMER, POWER (US, Canadian)				
**********						
*	A-4360-673-A	REAR AMPLIFIER BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C601	1-124-907-11	ELECT	10uF	20%	50V	
C602	1-162-282-31	CERAMIC	100PF	10%	50V	
C603	1-124-916-11	ELECT	22uF	20%	63V	
C604	1-124-667-11	ELECT	10uF	20%	100V	
C607	1-136-157-00	FILM	0.022uF	5%	50V	
C621	1-124-907-11	ELECT	10uF	20%	50V	
C622	1-162-282-31	CERAMIC	100PF	10%	50V	
C623	1-124-916-11	ELECT	22uF	20%	63V	
C624	1-124-667-11	ELECT	10uF	20%	100V	
C627	1-136-157-00	FILM	0.022uF	5%	50V	
		< CONNECTOR >				
* CNP631	1-564-506-11	PLUG, CONNECTOR 3P				
* CNP632	1-564-506-11	PLUG, CONNECTOR 3P				
* CNP633	1-564-506-11	PLUG, CONNECTOR 3P				
CNP634	1-691-767-11	PLUG (MICRO CONNECTOR) 5P				
		< DIODE >				
D620	8-719-987-63	DIODE 1N4148M				
D640	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC601	8-759-085-89	IC LM3875-S				
IC621	8-759-085-89	IC LM3875-S				

Ref.No.	Part No.	Description				Remark
		< COIL >				
L601	1-420-872-00	COIL, AIR CORE				
L621	1-420-872-00	COIL, AIR CORE				
		< TRANSISTOR >				
Q620	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				
Q640	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				
		< RESISTOR >				
R601	1-249-409-11	CARBON	220	5%	1/4W	
R602	1-249-441-11	CARBON	100K	5%	1/4W	
R603	1-249-420-11	CARBON	1.8K	5%	1/4W	
R604	1-249-441-11	CARBON	100K	5%	1/4W	
R605	1-249-419-11	CARBON	1.5K	5%	1/4W	
R606	1-249-431-11	CARBON	15K	5%	1/4W	
R607	1-249-438-11	CARBON	56K	5%	1/4W	
⚠R608	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R609	1-217-151-00	RES, METAL PLATE			0.22	F
R611	1-249-389-11	CARBON	4.7	5%	1/4W	
R621	1-249-409-11	CARBON	220	5%	1/4W	
R622	1-249-441-11	CARBON	100K	5%	1/4W	
R623	1-249-420-11	CARBON	1.8K	5%	1/4W	
R624	1-249-441-11	CARBON	100K	5%	1/4W	
R625	1-249-419-11	CARBON	1.5K	5%	1/4W	
R626	1-249-431-11	CARBON	15K	5%	1/4W	
R627	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R628	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R629	1-217-151-00	RES, METAL PLATE			0.22	F
R631	1-249-389-11	CARBON	4.7	5%	1/4W	
⚠R691	1-249-401-11	CARBON	47	5%	1/4W	
**********						
*	1-647-970-11	SP SW BOARD				
		**********				
		< CAPACITOR >				
C1710	1-162-294-31	CERAMIC	0.001uF	10%	50V	
		< CONNECTOR >				
* CNP704	1-564-242-00	PIN, CONNECTOR 5P				
* CNP710	1-564-674-11	PIN, CONNECTOR 8P				
		< JACK >				
J703	1-573-203-11	JACK, LARGE TYPE (HEADPHONES)				
		< RESISTOR >				
⚠R736	1-215-869-11	METAL OXIDE	1K	5%	1W	F

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SP SW | SP TERMINAL (F) | SP TERMINAL (R)

Ref.No.	Part No.	Description				Remark
⚠R786	1-215-869-11	METAL OXIDE	1K	5%	1W	F
		< SWITCH >				
S701	1-571-973-11	SWITCH, ROTARY (SPEAKER)				
**********						
*	1-648-695-11	SP TERMINAL (F) BOARD				
		**********				
		< CONNECTOR >				
* CNP160	1-564-517-11	PLUG, CONNECTOR 2P				
* CNP160	1-564-518-11	PLUG, CONNECTOR 3P				
* CNP715	1-564-674-11	PIN, CONNECTOR 8P				
		< SWITCH >				
S601	1-692-196-11	SWITCH, SLIDE (FRONT/CENTER SPEAKERS IMPEDANCE SELECTOR)				
		< TERMINAL >				
* TM701	1-537-519-11	TERMINAL BOARD (SP) (FRONT SPEAKERS A, B)				
**********						
*	A-4360-660-A	SP TERMINAL (R) BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C1601	1-124-927-11	ELECT	4.7uF	20%	100V	
C1602	1-130-489-00	MYLAR	0.033uF	5%	50V	
C1603	1-130-489-00	MYLAR	0.033uF	5%	50V	
C1604	1-124-927-11	ELECT	4.7uF	20%	100V	
C1641	1-124-903-11	ELECT	1uF	20%	50V	
C1642	1-124-903-11	ELECT	1uF	20%	50V	
C1651	1-124-927-11	ELECT	4.7uF	20%	100V	
C1652	1-130-489-00	MYLAR	0.033uF	5%	50V	
C1653	1-130-489-00	MYLAR	0.033uF	5%	50V	
C1691	1-164-070-11	CERAMIC	100PF	5%	50V	
C1692	1-164-070-11	CERAMIC	100PF	5%	50V	
		< CONNECTOR >				
* CNP160	1-564-519-11	PLUG, CONNECTOR 4P				
* CNP160	1-564-520-11	PLUG, CONNECTOR 5P				
* CNP161	1-564-517-11	PLUG, CONNECTOR 2P				
* CNP611	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P				
		< DIODE >				
D1601	8-719-987-63	DIODE	1N4148M			
D1602	8-719-987-63	DIODE	1N4148M			
D1603	8-719-987-63	DIODE	1N4148M			

Ref.No.	Part No.	Description				Remark
		< IC >				
IC1601	8-759-634-51	IC	M5218AP			
IC1602	8-759-634-51	IC	M5218AP			
IC1603	8-759-634-51	IC	M5218AP			
		< JACK >				
J601	1-750-530-11	JACK, PIN 4P (SURROUND OUT)				
J602	1-750-531-11	JACK, PIN 4P (MAIN IN/REC OUT)				
		< TRANSISTOR >				
Q1601	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q1603	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q1604	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q1611	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q1612	8-729-141-30	TRANSISTOR	2SC3623A-LK			
		< RESISTOR >				
R1601	1-249-433-11	CARBON	22K	5%	1/4W	
R1602	1-247-838-00	CARBON	2K	5%	1/4W	
R1603	1-249-417-11	CARBON	1K	5%	1/4W	
R1604	1-247-854-11	CARBON	9.1K	5%	1/4W	
R1605	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1606	1-249-429-11	CARBON	10K	5%	1/4W	
R1607	1-249-437-11	CARBON	47K	5%	1/4W	
R1608	1-249-417-11	CARBON	1K	5%	1/4W	
R1609	1-249-436-11	CARBON	39K	5%	1/4W	
R1610	1-247-876-11	CARBON	75K	5%	1/4W	
R1613	1-249-417-11	CARBON	1K	5%	1/4W	
R1620	1-247-842-11	CARBON	3K	5%	1/4W	
R1621	1-249-406-11	CARBON	120	5%	1/4W	
R1630	1-247-903-00	CARBON	1M	5%	1/4W	
R1631	1-249-440-11	CARBON	82K	5%	1/4W	
R1632	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1633	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1634	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1635	1-249-429-11	CARBON	10K	5%	1/4W	
R1636	1-249-417-11	CARBON	1K	5%	1/4W	
R1651	1-249-433-11	CARBON	22K	5%	1/4W	
R1652	1-247-838-00	CARBON	2K	5%	1/4W	
R1653	1-249-417-11	CARBON	1K	5%	1/4W	
R1654	1-247-854-11	CARBON	9.1K	5%	1/4W	
R1655	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1656	1-249-429-11	CARBON	10K	5%	1/4W	
R1657	1-249-437-11	CARBON	47K	5%	1/4W	
R1658	1-249-417-11	CARBON	1K	5%	1/4W	
R1659	1-249-436-11	CARBON	39K	5%	1/4W	
R1660	1-247-876-11	CARBON	75K	5%	1/4W	
R1663	1-249-417-11	CARBON	1K	5%	1/4W	

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SP TERMINAL (R) SURROUND

Ref.No.	Part No.	Description				Remark
R1670	1-247-842-11	CARBON	3K	5%	1/4W	
R1671	1-249-406-11	CARBON	120	5%	1/4W	
R1681	1-249-429-11	CARBON	10K	5%	1/4W	
R1682	1-249-429-11	CARBON	10K	5%	1/4W	
R1683	1-249-429-11	CARBON	10K	5%	1/4W	
R1699	1-249-417-11	CARBON	1K	5%	1/4W	
		< RELAY >				
RY1602	1-515-793-11	RELAY				
RY1603	1-515-793-11	RELAY				
RY1604	1-515-790-11	RELAY				
		< SWITCH >				
S602	1-692-457-11	SWITCH, SLIDE (LOW FILTER)				
		< TERMINAL >				
TM702	1-537-510-21	TERMINAL BOARD (SPEAKER) (6P) (CENTER SPEAKER/REAR SPEAKER)				
**********						
*	A-4360-681-A	SURROUND BOARD, COMPLETE **********				
		< CAPACITOR >				
C301	1-124-477-11	ELECT	47uF	20%	25V	
C302	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C303	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C304	1-124-477-11	ELECT	47uF	20%	25V	
C305	1-136-153-00	FILM	0.01uF	5%	50V	
C306	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C307	1-124-907-11	ELECT	10uF	20%	50V	
C308	1-124-477-11	ELECT	47uF	20%	25V	
C309	1-124-916-11	ELECT	22uF	20%	63V	
C310	1-124-916-11	ELECT	22uF	20%	63V	
C311	1-136-165-00	FILM	0.1uF	5%	50V	
C312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C313	1-164-068-11	CERAMIC	82PF	5%	50V	
C315	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C318	1-164-057-11	CERAMIC	30PF	5%	50V	
C319	1-164-057-11	CERAMIC	30PF	5%	50V	
C320	1-130-472-00	MYLAR	0.0012uF	5%	50V	
C321	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C322	1-124-916-11	ELECT	22uF	20%	63V	
C323	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C324	1-124-907-11	ELECT	10uF	20%	50V	
C325	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C326	1-124-477-11	ELECT	47uF	20%	25V	
C327	1-124-916-11	ELECT	22uF	20%	63V	
C328	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C329	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C330	1-124-477-11	ELECT	47uF	20%	25V	
C331	1-124-477-11	ELECT	47uF	20%	25V	
C332	1-130-473-00	MYLAR	0.0015uF	5%	50V	
C333	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C334	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C335	1-130-478-00	MYLAR	0.0039uF	5%	50V	
C336	1-124-916-11	ELECT	22uF	20%	63V	
C337	1-136-165-00	FILM	0.1uF	5%	50V	
C341	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C342	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C343	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C344	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C345	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C346	1-124-478-11	ELECT	100uF	20%	25V	
C351	1-124-916-11	ELECT	22uF	20%	63V	
C352	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C353	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C354	1-136-153-00	FILM	0.01uF	5%	50V	
C355	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C356	1-124-477-11	ELECT	47uF	20%	25V	
C357	1-124-907-11	ELECT	10uF	20%	50V	
C359	1-124-916-11	ELECT	22uF	20%	63V	
C363	1-164-068-11	CERAMIC	82PF	5%	50V	
C365	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C368	1-164-057-11	CERAMIC	30PF	5%	50V	
C369	1-164-057-11	CERAMIC	30PF	5%	50V	
C370	1-130-472-00	MYLAR	0.0012uF	5%	50V	
C371	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C372	1-124-916-11	ELECT	22uF	20%	63V	
C373	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C374	1-124-907-11	ELECT	10uF	20%	50V	
C375	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C376	1-124-477-11	ELECT	47uF	20%	25V	
C377	1-124-916-11	ELECT	22uF	20%	63V	
C378	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C381	1-124-907-11	ELECT	10uF	20%	50V	
C382	1-130-473-00	MYLAR	0.0015uF	5%	50V	
C383	1-124-907-11	ELECT	10uF	20%	50V	
C384	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C385	1-130-478-00	MYLAR	0.0039uF	5%	50V	
C386	1-124-916-11	ELECT	22uF	20%	63V	
C392	1-124-903-11	ELECT	1uF	20%	50V	
C393	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C394	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C395	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C396	1-124-478-11	ELECT	100uF	20%	25V	
C405	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C427	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C428	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	

Ref.No.	Part No.	Description			Remark
C429	1-124-477-11	ELECT	47uF	20%	25V
C430	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C431	1-124-478-11	ELECT	100uF	20%	25V
C432	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C433	1-126-176-11	ELECT	220uF	20%	10V
C435	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C436	1-124-478-11	ELECT	100uF	20%	25V
C437	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C438	1-126-176-11	ELECT	220uF	20%	10V
C440	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C441	1-124-478-11	ELECT	100uF	20%	25V
C442	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C446	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C451	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C452	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C468	1-124-907-11	ELECT	10uF	20%	50V
C469	1-124-907-11	ELECT	10uF	20%	50V
C470	1-124-907-11	ELECT	10uF	20%	50V
C471	1-124-907-11	ELECT	10uF	20%	50V
C472	1-124-907-11	ELECT	10uF	20%	50V
C473	1-124-907-11	ELECT	10uF	20%	50V
C474	1-124-907-11	ELECT	10uF	20%	50V
C475	1-124-907-11	ELECT	10uF	20%	50V
C476	1-124-903-11	ELECT	1uF	20%	50V
C477	1-124-903-11	ELECT	1uF	20%	50V
C478	1-124-478-11	ELECT	100uF	20%	25V
C479	1-136-171-00	FILM	0.33uF	5%	50V
C480	1-136-165-00	FILM	0.1uF	5%	50V
C481	1-136-159-00	FILM	0.033uF	5%	50V
C482	1-130-479-00	MYLAR	0.0047uF	5%	50V
C483	1-130-482-00	MYLAR	0.0082uF	5%	50V
C484	1-136-158-00	FILM	0.027uF	5%	50V
C485	1-124-916-11	ELECT	22uF	20%	63V
C486	1-124-478-11	ELECT	100uF	20%	25V
C487	1-124-903-11	ELECT	1uF	20%	50V
C488	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C489	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
* CNP302	1-564-506-11	PLUG, CONNECTOR 3P			
		< CONNECTOR >			
* CNS301	1-565-484-11	CONNECTOR, BOARD TO BOARD 8P			
CNS303	1-695-218-11	SOCKET, CONNECTOR 33P			
		< FERRITE BEAD INDUCTOR >			
FB401	1-410-397-21	FERRITE BEAD INDUCTOR	1.1uH		

Ref.No.	Part No.	Description		Remark
		< IC >		
IC301	8-759-504-36	IC	CS5339-KP	
IC302	8-759-636-55	IC	M5218AFP	
IC303	8-759-708-05	IC	NJM78L05A	
IC304	8-759-700-65	IC	NJM79L05A	
IC305	8-759-636-55	IC	M5218AFP	
IC306	8-759-636-55	IC	M5218AFP	
IC307	8-759-040-59	IC	LC7883K	
IC308	8-759-636-55	IC	M5218AFP	
IC309	8-759-636-55	IC	M5218AFP	
IC355	8-759-636-55	IC	M5218AFP	
IC403	8-759-708-05	IC	NJM78L05A	
IC404	8-759-075-34	IC	LC83015	
IC405	8-752-359-50	IC	CXD2564AM	
IC406	8-759-165-17	IC	MT4C4256-8A	
IC408	8-759-708-05	IC	NJM78L05A	
IC418	8-759-820-11	IC	LC7535	
IC419	8-759-636-55	IC	M5218AFP	
IC420	8-759-823-24	IC	LA2730	
IC421	8-759-801-01	IC	LC4966	
		< COIL >		
L301	1-410-377-31	INDUCTOR CHIP	4.7uH	
L302	1-410-377-31	INDUCTOR CHIP	4.7uH	
L404	1-410-377-31	INDUCTOR CHIP	4.7uH	
L405	1-410-377-31	INDUCTOR CHIP	4.7uH	
L410	1-410-377-31	INDUCTOR CHIP	4.7uH	
		< TRANSISTOR >		
Q301	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q302	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q303	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q304	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q305	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q306	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q351	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q352	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q353	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q354	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q355	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q356	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q406	8-729-207-68	TRANSISTOR	RN2402	
Q407	8-729-207-68	TRANSISTOR	RN2402	
Q408	8-729-207-68	TRANSISTOR	RN2402	
Q409	8-729-207-68	TRANSISTOR	RN2402	
Q411	8-729-805-45	TRANSISTOR	2SC3395	
Q412	8-729-901-06	TRANSISTOR	DTA144EK	
Q413	8-729-805-45	TRANSISTOR	2SC3395	

SURROUND

Ref.No.	Part No.	Description			Remark
		< RESISTOR >			
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W
R302	1-216-017-00	METAL CHIP	47	5%	1/10W
R303	1-216-025-00	METAL CHIP	100	5%	1/10W
R304	1-216-073-00	METAL CHIP	10K	5%	1/10W
R305	1-216-097-00	METAL CHIP	100K	5%	1/10W
R306	1-216-097-00	METAL CHIP	100K	5%	1/10W
R308	1-216-085-00	METAL CHIP	33K	5%	1/10W
R309	1-216-113-00	METAL CHIP	470K	5%	1/10W
R311	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R312	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R313	1-216-079-00	METAL CHIP	18K	5%	1/10W
R314	1-216-079-00	METAL CHIP	18K	5%	1/10W
R315	1-216-093-00	METAL CHIP	68K	5%	1/10W
R316	1-216-093-00	METAL CHIP	68K	5%	1/10W
R317	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R318	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R322	1-216-097-00	METAL CHIP	100K	5%	1/10W
R323	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R324	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R325	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R326	1-216-097-00	METAL CHIP	100K	5%	1/10W
R327	1-216-073-00	METAL CHIP	10K	5%	1/10W
R328	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R329	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R330	1-216-049-00	METAL CHIP	1K	5%	1/10W
R331	1-216-097-00	METAL CHIP	100K	5%	1/10W
R332	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R333	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R334	1-216-105-00	METAL CHIP	220K	5%	1/10W
R335	1-216-049-00	METAL CHIP	1K	5%	1/10W
R336	1-216-049-00	METAL CHIP	1K	5%	1/10W
R337	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R338	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R341	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R342	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R343	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R344	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R346	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R347	1-216-049-00	METAL CHIP	1K	5%	1/10W
R348	1-216-049-00	METAL CHIP	1K	5%	1/10W
R349	1-216-049-00	METAL CHIP	1K	5%	1/10W
R350	1-216-049-00	METAL CHIP	1K	5%	1/10W
R351	1-216-001-00	METAL CHIP	10	5%	1/10W
R352	1-216-017-00	METAL CHIP	47	5%	1/10W
R353	1-216-025-00	METAL CHIP	100	5%	1/10W
R354	1-216-073-00	METAL CHIP	10K	5%	1/10W
R355	1-216-097-00	METAL CHIP	100K	5%	1/10W
R356	1-216-097-00	METAL CHIP	100K	5%	1/10W
R358	1-216-085-00	METAL CHIP	33K	5%	1/10W
R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R360	1-216-041-00	METAL CHIP	470	5%	1/10W
R361	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R362	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R363	1-216-079-00	METAL CHIP	18K	5%	1/10W
R364	1-216-079-00	METAL CHIP	18K	5%	1/10W
R365	1-216-093-00	METAL CHIP	68K	5%	1/10W
R366	1-216-093-00	METAL CHIP	68K	5%	1/10W
R367	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R368	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R370	1-216-009-00	METAL CHIP	22	5%	1/10W
R371	1-216-009-00	METAL CHIP	22	5%	1/10W
R372	1-216-097-00	METAL CHIP	100K	5%	1/10W
R373	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R374	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R375	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R376	1-216-097-00	METAL CHIP	100K	5%	1/10W
R377	1-216-073-00	METAL CHIP	10K	5%	1/10W
R378	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R379	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R380	1-216-049-00	METAL CHIP	1K	5%	1/10W
R381	1-216-097-00	METAL CHIP	100K	5%	1/10W
R382	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R383	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R384	1-216-105-00	METAL CHIP	220K	5%	1/10W
R385	1-216-049-00	METAL CHIP	1K	5%	1/10W
R386	1-216-049-00	METAL CHIP	1K	5%	1/10W
R387	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R388	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R390	1-216-041-00	METAL CHIP	470	5%	1/10W
R391	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R392	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R393	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R394	1-216-049-00	METAL CHIP	1K	5%	1/10W
R396	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R399	1-216-295-00	METAL CHIP	0	5%	1/10W
R403	1-216-080-00	METAL CHIP	20K	5%	1/10W
R404	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R411	1-216-097-00	METAL CHIP	100K	5%	1/10W
R412	1-216-097-00	METAL CHIP	100K	5%	1/10W
R413	1-216-049-00	METAL CHIP	1K	5%	1/10W
R416	1-216-049-00	METAL CHIP	1K	5%	1/10W
R418	1-216-049-00	METAL CHIP	1K	5%	1/10W
R426	1-216-041-00	METAL CHIP	470	5%	1/10W
R427	1-216-025-00	METAL CHIP	100	5%	1/10W
R436	1-216-121-00	METAL CHIP	1M	5%	1/10W
R437	1-216-121-00	METAL CHIP	1M	5%	1/10W

SURROUND | SYSTEM POWER | TRANSFORMER TERMINAL (1) | TRANSFORMER TERMINAL (2) | TUNER VIDEO

Ref. No.	Part No.	Description			Remark
R438	1-216-121-00	METAL CHIP	1M	5%	1/10W
R439	1-216-121-00	METAL CHIP	1M	5%	1/10W
R440	1-216-121-00	METAL CHIP	1M	5%	1/10W
R441	1-216-081-00	METAL CHIP	22K	5%	1/10W
R442	1-216-081-00	METAL CHIP	22K	5%	1/10W
R443	1-216-049-00	METAL CHIP	1K	5%	1/10W
R451	1-216-097-00	METAL CHIP	100K	5%	1/10W
R452	1-216-097-00	METAL CHIP	100K	5%	1/10W
R453	1-216-080-00	METAL CHIP	20K	5%	1/10W
R454	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R467	1-216-080-00	METAL CHIP	20K	5%	1/10W
R468	1-216-073-00	METAL CHIP	10K	5%	1/10W
R469	1-216-107-00	METAL CHIP	270K	5%	1/10W
R470	1-216-073-00	METAL CHIP	10K	5%	1/10W
R471	1-216-077-00	METAL CHIP	15K	5%	1/10W
R472	1-216-083-00	METAL CHIP	27K	5%	1/10W
R473	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R474	1-216-089-00	METAL CHIP	47K	5%	1/10W
R475	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R476	1-216-107-00	METAL CHIP	270K	5%	1/10W
R477	1-216-081-00	METAL CHIP	22K	5%	1/10W
R479	1-216-031-00	METAL CHIP	180	5%	1/10W
R480	1-216-075-00	METAL CHIP	12K	5%	1/10W
R481	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R482	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R483	1-216-089-00	METAL CHIP	47K	5%	1/10W
R485	1-216-295-00	METAL CHIP	0	5%	1/10W
R486	1-216-295-00	METAL CHIP	0	5%	1/10W
R491	1-216-049-00	METAL CHIP	1K	5%	1/10W
R492	1-216-049-00	METAL CHIP	1K	5%	1/10W
R493	1-216-049-00	METAL CHIP	1K	5%	1/10W
R494	1-216-049-00	METAL CHIP	1K	5%	1/10W
R495	1-216-049-00	METAL CHIP	1K	5%	1/10W
R496	1-216-049-00	METAL CHIP	1K	5%	1/10W
R497	1-216-049-00	METAL CHIP	1K	5%	1/10W
R498	1-216-033-00	METAL CHIP	220	5%	1/10W
R499	1-216-041-00	METAL CHIP	470	5%	1/10W
		< CRYSTAL >			
X402	1-567-970-11	VIBRATOR, CRYSTAL (24.576MHz)			

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*	1-648-656-11	SYSTEM POWER BOARD	
		**********	
		< CONNECTOR >	
* CNS202	1-565-295-11	PLUG, CONNECTOR 4P	
		< SWITCH >	
S244	1-554-303-21	SWITCH, TACTILE (POWER)	

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*	1-647-972-11	TRANSFORMER TERMINAL(1) BOARD	
		**********	
			(GX808ES/GX909ES:US)
*	1-645-942-11	TRANSFORMER TERMINAL(1) BOARD	
		**********	
			(GX808ES/GX909ES:Canadian)
		< CONNECTOR >	
CNP970	1-564-242-00	PIN, CONNECTOR 5P	
* CNP974	1-564-506-11	PLUG, CONNECTOR 3P	
		< DIODE >	
D966	8-719-987-63	DIODE 1N4148M	
		< FUSE >	
⚠F952	1-576-108-11	FUSE (4A/125V)	
⚠F954	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
⚠F955	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
		< RELAY >	
RY951	1-515-894-11	RELAY (GX808ES/GX909ES:US)	

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*	1-647-973-11	TRANSFORMER TERMINAL(2) BOARD	
		**********	
		< CONNECTOR >	
* CNP971	1-564-506-11	PLUG, CONNECTOR 3P	
CNP972	1-564-104-00	PIN, CONNECTOR 3P	
CNP973	1-564-321-00	PIN, CONNECTOR 2P	
		< DIODE >	
D150	8-719-014-82	DIODE UZP-6.8B	
		< FUSE >	
⚠F951	1-576-109-11	FUSE (5A/125V)	
⚠F953	1-576-109-11	FUSE (5A/125V)	

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*	A-4360-659-A	TUNER VIDEO BOARD, COMPLETE (GX909ES)	
		**********	
*	A-4360-929-A	TUNER VIDEO BOARD, COMPLETE (GX808ES)	
		**********	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TUNER VIDEO

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V
C2	1-124-477-11	ELECT	47uF	20%	25V
C3	1-161-379-00	CERAMIC	0.01uF	20%	25V
C4	1-162-294-31	CERAMIC	0.001uF	10%	50V
C5	1-161-379-00	CERAMIC	0.01uF	20%	25V
C6	1-161-379-00	CERAMIC	0.01uF	20%	25V
C11	1-164-097-11	CERAMIC	0.022uF		50V
C21	1-161-021-11	CERAMIC	0.047uF	10%	25V
C22	1-161-379-00	CERAMIC	0.01uF	20%	25V
C23	1-124-477-11	ELECT	47uF	20%	25V
C24	1-123-382-00	ELECT	3.3uF	20%	100V
C25	1-161-379-00	CERAMIC	0.01uF	20%	25V
C26	1-161-329-00	CERAMIC	0.0068uF	30%	16V
C27	1-162-282-31	CERAMIC	100PF	10%	50V
C28	1-124-903-11	ELECT	1uF	20%	50V
C30	1-124-903-11	ELECT	1uF	20%	50V
C31	1-124-902-00	ELECT	0.47uF	20%	50V
C32	1-124-463-00	ELECT	0.1uF	20%	50V
C33	1-130-482-00	MYLAR	0.0082uF	5%	50V
C34	1-123-382-00	ELECT	3.3uF	20%	100V
C35	1-130-482-00	MYLAR	0.0082uF	5%	50V
C36	1-123-382-00	ELECT	3.3uF	20%	100V
C37	1-124-907-11	ELECT	10uF	20%	50V
C39	1-161-379-00	CERAMIC	0.01uF	20%	25V
C40	1-124-463-00	ELECT	0.1uF	20%	50V
C41	1-124-927-11	ELECT	4.7uF	20%	100V
C42	1-161-379-00	CERAMIC	0.01uF	20%	25V
C43	1-126-176-11	ELECT	220uF	20%	10V
C44	1-161-379-00	CERAMIC	0.01uF	20%	25V
C45	1-123-382-00	ELECT	3.3uF	20%	100V
C46	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C48	1-123-382-00	ELECT	3.3uF	20%	100V
C49	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C51	1-124-477-11	ELECT	47uF	20%	25V
C61	1-161-494-00	CERAMIC	0.022uF		25V
C63	1-161-494-00	CERAMIC	0.022uF		25V
C81	1-102-953-00	CERAMIC	18PF	5%	50V
C82	1-102-953-00	CERAMIC	18PF	5%	50V
C83	1-161-379-00	CERAMIC	0.01uF	20%	25V
C84	1-161-379-00	CERAMIC	0.01uF	20%	25V
C85	1-161-379-00	CERAMIC	0.01uF	20%	25V
C86	1-124-477-11	ELECT	47uF	20%	25V
C87	1-161-379-00	CERAMIC	0.01uF	20%	25V
C88	1-161-379-00	CERAMIC	0.01uF	20%	25V
C89	1-124-925-11	ELECT	2.2uF	20%	100V
C90	1-124-463-00	ELECT	0.1uF	20%	50V
C91	1-161-379-00	CERAMIC	0.01uF	20%	25V
C92	1-161-379-00	CERAMIC	0.01uF	20%	25V
C93	1-124-477-11	ELECT	47uF	20%	25V
C101	1-124-903-11	ELECT	1uF	20%	50V
C102	1-124-903-11	ELECT	1uF	20%	50V
C103	1-124-472-11	ELECT	470uF	20%	10V
C104	1-124-472-11	ELECT	470uF	20%	10V
C108	1-164-159-11	CERAMIC	0.1uF		50V
C109	1-124-120-11	ELECT	220uF	20%	25V
C110	1-124-903-11	ELECT	1uF	20%	50V
C111	1-124-903-11	ELECT	1uF	20%	50V (GX909ES)
C112	1-124-903-11	ELECT	1uF	20%	50V (GX909ES)
C113	1-124-903-11	ELECT	1uF	20%	50V (GX909ES)
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-567-389-11	FILTER, CERAMIC			
CF21	1-577-075-11	OSCILLATOR, CERAMIC			
		< COMPOSITION CIRCUIT BLOCK >			
CFT21	1-404-853-11	TRANSFORMER, IF(CERAMIC FILTER)			
		< CONNECTOR >			
* CNS1	1-691-183-11	CONNECTOR (BOARD TO BOARD) 13P			
* CNS104	1-568-824-11	SOCKET, CONNECTOR 5P (GX909ES)			
		< DIODE >			
D101	8-719-987-63	DIODE 1N4148M (GX909ES)			
D102	8-719-987-63	DIODE 1N4148M (GX909ES)			
		< FRONT END >			
FE1	1-693-201-11	FRONT END, FM			
FE61	1-236-461-11	ENCAPSULATED COMPONENT			
		< IC >			
IC10	8-759-821-45	IC LA1851N			
IC11	8-759-820-91	IC LC7218			
IC101	8-759-061-95	IC SN761200N			
IC102	8-759-056-91	IC BA7611AN (GX909ES)			
		< JACK >			
J101	1-568-751-51	JACK, PIN (2P SHIELD TYPE) (MONITOR VIDEO OUT/VIDEO 1 VIDEO IN)			
J102	1-568-751-51	JACK, PIN (2P SHIELD TYPE) (VIDEO 1 VIDEO OUT/VIDEO 2 VIDEO IN)			

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TUNER VIDEO

Ref. No.	Part No.	Description				Remark
		< COIL >				
L1	1-410-521-11	INDUCTOR 100uH				
L21	1-410-171-11	INDUCTOR 1mH				
		< FILTER >				
LPF21	1-235-221-00	FILTER, LOW PASS				
		< TRANSISTOR >				
Q1	8-729-230-99	TRANSISTOR 2SC2669-OY				
Q2	8-729-230-99	TRANSISTOR 2SC2669-OY				
Q21	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q22	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q23	8-729-900-61	TRANSISTOR DTA114ES				
Q24	8-729-900-36	TRANSISTOR DTC124ES				
Q25	8-729-900-36	TRANSISTOR DTC124ES				
Q81	8-729-900-61	TRANSISTOR DTA114ES				
Q82	8-729-900-36	TRANSISTOR DTC124ES				
Q83	8-729-202-67	TRANSISTOR 2SK246-GR3				
Q84	8-729-230-93	TRANSISTOR 2SC3113-AB				
Q101	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q102	8-729-119-76	TRANSISTOR 2SA1175-HFE				
		< RESISTOR >				
⚠R1	1-249-407-11	CARBON	150	5%	1/4W	F
R3	1-249-411-11	CARBON	330	5%	1/4W	
R4	1-249-411-11	CARBON	330	5%	1/4W	
R5	1-249-411-11	CARBON	330	5%	1/4W	
R6	1-249-432-11	CARBON	18K	5%	1/4W	
R7	1-249-411-11	CARBON	330	5%	1/4W	
R8	1-249-414-11	CARBON	560	5%	1/4W	
R9	1-249-434-11	CARBON	27K	5%	1/4W	
⚠R21	1-249-405-11	CARBON	100	5%	1/4W	F
R22	1-249-428-11	CARBON	8.2K	5%	1/4W	
R23	1-249-417-11	CARBON	1K	5%	1/4W	
R24	1-249-435-11	CARBON	33K	5%	1/4W	
R25	1-249-428-11	CARBON	8.2K	5%	1/4W	
R27	1-249-432-11	CARBON	18K	5%	1/4W	
R28	1-249-423-11	CARBON	3.3K	5%	1/4W	
R29	1-249-429-11	CARBON	10K	5%	1/4W	
R31	1-249-413-11	CARBON	470	5%	1/4W	
R32	1-249-429-11	CARBON	10K	5%	1/4W	
R33	1-249-429-11	CARBON	10K	5%	1/4W	
R35	1-249-437-11	CARBON	47K	5%	1/4W	
R37	1-247-891-00	CARBON	330K	5%	1/4W	
R39	1-249-423-11	CARBON	3.3K	5%	1/4W	
R40	1-249-420-11	CARBON	1.8K	5%	1/4W	
R41	1-249-426-11	CARBON	5.6K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R42	1-247-891-00	CARBON	330K	5%	1/4W	
R44	1-249-423-11	CARBON	3.3K	5%	1/4W	
R45	1-249-420-11	CARBON	1.8K	5%	1/4W	
R46	1-249-426-11	CARBON	5.6K	5%	1/4W	
⚠R47	1-249-409-11	CARBON	220	5%	1/4W	F
R61	1-249-441-11	CARBON	100K	5%	1/4W	
R62	1-249-437-11	CARBON	47K	5%	1/4W	
R63	1-249-397-11	CARBON	22	5%	1/4W	
R64	1-249-417-11	CARBON	1K	5%	1/4W	
R70	1-249-423-11	CARBON	3.3K	5%	1/4W	
R71	1-249-414-11	CARBON	560	5%	1/4W	
R72	1-249-417-11	CARBON	1K	5%	1/4W	
R73	1-249-410-11	CARBON	270	5%	1/4W	
R74	1-249-425-11	CARBON	4.7K	5%	1/4W	
R75	1-249-421-11	CARBON	2.2K	5%	1/4W	
R76	1-249-425-11	CARBON	4.7K	5%	1/4W	
R77	1-249-405-11	CARBON	100	5%	1/4W	
R78	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R79	1-249-407-11	CARBON	150	5%	1/4W	F
R81	1-249-417-11	CARBON	1K	5%	1/4W	
R82	1-249-417-11	CARBON	1K	5%	1/4W	
R83	1-249-417-11	CARBON	1K	5%	1/4W	
R84	1-249-417-11	CARBON	1K	5%	1/4W	
R85	1-249-429-11	CARBON	10K	5%	1/4W	
R86	1-249-417-11	CARBON	1K	5%	1/4W	
R87	1-249-429-11	CARBON	10K	5%	1/4W	
R88	1-249-425-11	CARBON	4.7K	5%	1/4W	
R89	1-249-417-11	CARBON	1K	5%	1/4W	
R91	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R92	1-249-401-11	CARBON	47	5%	1/4W	F
R101	1-247-804-11	CARBON	75	5%	1/4W	
R102	1-247-804-11	CARBON	75	5%	1/4W	
R103	1-247-804-11	CARBON	75	5%	1/4W	
R104	1-249-429-11	CARBON	10K	5%	1/4W	
R105	1-247-804-11	CARBON	75	5%	1/4W	
R106	1-249-429-11	CARBON	10K	5%	1/4W	
R109	1-249-405-11	CARBON	100	5%	1/4W	
R110	1-249-405-11	CARBON	100	5%	1/4W	
R113	1-249-405-11	CARBON	100	5%	1/4W	
R114	1-249-405-11	CARBON	100	5%	1/4W	
R115	1-249-433-11	CARBON	22K	5%	1/4W	
R116	1-249-433-11	CARBON	22K	5%	1/4W	
R117	1-249-433-11	CARBON	22K	5%	1/4W	
R120	1-249-425-11	CARBON	4.7K	5%	1/4W	(GX909ES)
R121	1-249-425-11	CARBON	4.7K	5%	1/4W	(GX909ES)
R122	1-249-425-11	CARBON	4.7K	5%	1/4W	(GX909ES)
R123	1-249-425-11	CARBON	4.7K	5%	1/4W	(GX909ES)

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TUNER VIDEO | VOLUME

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV21	1-241-628-11	RES, ADJ, CARBON 2.2K (FM STEREO SEPARATION)	
RV22	1-241-631-11	RES, ADJ, CARBON 22K (AM TUNING LEVEL)	
RV24	1-241-631-11	RES, ADJ, CARBON 22K (FM TUNING LEVEL)	
RV25	1-241-631-11	RES, ADJ, CARBON 22K (AUTO STOP LEVEL)	
		< TRANSFORMER >	
T21	1-404-807-11	TRANSFORMER, DISCRIMINATOR	
		< TERMINAL >	
* TM1	1-562-907-11	CONNECTOR, F-J	
TM2	1-536-707-00	TERMINAL BOARD, PUSH 2P	
		< TEST PIN >	
* TP1	1-560-060-00	PIN, CONNECTOR 2P	
		< CRYSTAL >	
XT81	1-579-585-11	VIBRATOR, CRYSTAL (7.2MHz)	
**********			
*	1-648-696-11	VOLUME BOARD **********	
		< CAPACITOR >	
C401	1-124-903-11	ELECT 1uF 20% 50V	
C402	1-124-903-11	ELECT 1uF 20% 50V	
		< CONNECTOR >	
CNP451	1-691-166-11	PIN, CONNECTOR 9P	
		< CONNECTOR >	
* CNS450	1-691-177-11	CONNECTOR (BOARD TO BOARD) 7P	
* CNS453	1-568-824-11	SOCKET, CONNECTOR 5P	
		< RESISTOR >	
R401	1-249-407-11	CARBON 150 5% 1/4W	
R1255	1-247-903-00	CARBON 1M 5% 1/4W	
		< VARIABLE RESISTOR >	
RV402	1-241-563-11	RES, VAR, CARBON 100KX4 (VOLUME)	
**********			
		MISCELLANEOUS **********	
16	1-690-091-11	WIRE, FLAT TYPE (21 CORE)	
⚠58	1-575-975-11	CORD, POWER	
62	1-575-777-11	WIRE, FLAT TYPE (5 CORE) (GX909ES)	
63	1-690-421-11	WIRE, FLAT TYPE (7 CORE) (GX909ES)	
64	1-696-073-21	LEAD (WITH CONNECTOR) (2 CORE)	
67	1-535-706-11	PLUG, JUMPER	
110	1-575-848-11	WIRE, FLAT TYPE (5 CORE)	
111	1-696-550-11	WIRE (FLAT TYPE) (33 CORE)	
⚠T902	1-423-642-11	TRANSFORMER, POWER (GX808ES:US)	
⚠T902	1-423-645-11	TRANSFORMER, POWER (GX909ES:US)	
⚠T902	1-423-695-11	TRANSFORMER, POWER (GX909ES:Canadian)	
⚠T902	1-423-696-11	TRANSFORMER, POWER (GX808ES:Canadian)	
**********			
		ACCESSORIES & PACKING MATERIALS **********	
	1-467-033-11	COMMANDER, STANDARD (RM-P331)	
	1-501-374-11	ANTENNA, LOOP	
	3-757-057-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-757-057-31	MANUAL, INSTRUCTION (FRENCH) (GX808ES/GX909ES:Canadian)	
	4-925-079-01	COVER (6), BATTERY	
*	4-927-854-03	CUSHION (GX808ES)	
*	4-933-001-01	CUSHION (GX909ES)	
*	4-959-989-01	INDIVIDUAL CARTON (GX909ES)	
*	4-959-990-01	INDIVIDUAL CARTON (GX808ES)	
**********			
		********** HARDWARE LIST **********	
#1	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
#2	7-682-547-09	SCREW +BVTT 3X6 (S)	
#3	7-682-561-04	SCREW +BVTT 4X8 (S)	
#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#5	7-682-548-04	SCREW +BVTT 3X8 (S)	

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9-957-887-11

Sony Corporation
Audio Group

English
93D0232-1
Printed in Japan
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